

Maths for week beginning 8th February 2021

Please complete the daily work and send a copy/picture to your teacher.

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Times Table Rockstars <https://ttrackstars.com/>.

Everyday please log into Times Tables RockStars
(TTRS)

You have been sent login details, if you are
unsure please contact your teacher

Chant your times tables daily

1×

$$\begin{aligned}1 \times 1 &= 1 \\1 \times 2 &= 2 \\1 \times 3 &= 3 \\1 \times 4 &= 4 \\1 \times 5 &= 5 \\1 \times 6 &= 6 \\1 \times 7 &= 7 \\1 \times 8 &= 8 \\1 \times 9 &= 9 \\1 \times 10 &= 10\end{aligned}$$

2×

$$\begin{aligned}2 \times 1 &= 2 \\2 \times 2 &= 4 \\2 \times 3 &= 6 \\2 \times 4 &= 8 \\2 \times 5 &= 10 \\2 \times 6 &= 12 \\2 \times 7 &= 14 \\2 \times 8 &= 16 \\2 \times 9 &= 18 \\2 \times 10 &= 20\end{aligned}$$

3×

$$\begin{aligned}3 \times 1 &= 3 \\3 \times 2 &= 6 \\3 \times 3 &= 9 \\3 \times 4 &= 12 \\3 \times 5 &= 15 \\3 \times 6 &= 18 \\3 \times 7 &= 21 \\3 \times 8 &= 24 \\3 \times 9 &= 27 \\3 \times 10 &= 30\end{aligned}$$

4×

$$\begin{aligned}4 \times 1 &= 4 \\4 \times 2 &= 8 \\4 \times 3 &= 12 \\4 \times 4 &= 16 \\4 \times 5 &= 20 \\4 \times 6 &= 24 \\4 \times 7 &= 28 \\4 \times 8 &= 32 \\4 \times 9 &= 36 \\4 \times 10 &= 40\end{aligned}$$

5×

$$\begin{aligned}5 \times 1 &= 5 \\5 \times 2 &= 10 \\5 \times 3 &= 15 \\5 \times 4 &= 20 \\5 \times 5 &= 25 \\5 \times 6 &= 30 \\5 \times 7 &= 35 \\5 \times 8 &= 40 \\5 \times 9 &= 45 \\5 \times 10 &= 50\end{aligned}$$

6×

$$\begin{aligned}6 \times 1 &= 6 \\6 \times 2 &= 12 \\6 \times 3 &= 18 \\6 \times 4 &= 24 \\6 \times 5 &= 30 \\6 \times 6 &= 36 \\6 \times 7 &= 42 \\6 \times 8 &= 48 \\6 \times 9 &= 54 \\6 \times 10 &= 60\end{aligned}$$

7×

$$\begin{aligned}7 \times 1 &= 7 \\7 \times 2 &= 14 \\7 \times 3 &= 21 \\7 \times 4 &= 28 \\7 \times 5 &= 35 \\7 \times 6 &= 42 \\7 \times 7 &= 49 \\7 \times 8 &= 56 \\7 \times 9 &= 63 \\7 \times 10 &= 70\end{aligned}$$

8×

$$\begin{aligned}8 \times 1 &= 8 \\8 \times 2 &= 16 \\8 \times 3 &= 24 \\8 \times 4 &= 32 \\8 \times 5 &= 40 \\8 \times 6 &= 48 \\8 \times 7 &= 56 \\8 \times 8 &= 64 \\8 \times 9 &= 72 \\8 \times 10 &= 80\end{aligned}$$

9×

$$\begin{aligned}9 \times 1 &= 9 \\9 \times 2 &= 18 \\9 \times 3 &= 27 \\9 \times 4 &= 36 \\9 \times 5 &= 45 \\9 \times 6 &= 54 \\9 \times 7 &= 63 \\9 \times 8 &= 72 \\9 \times 9 &= 81 \\9 \times 10 &= 90\end{aligned}$$

10×

$$\begin{aligned}10 \times 1 &= 10 \\10 \times 2 &= 20 \\10 \times 3 &= 30 \\10 \times 4 &= 40 \\10 \times 5 &= 50 \\10 \times 6 &= 60 \\10 \times 7 &= 70 \\10 \times 8 &= 80 \\10 \times 9 &= 90 \\10 \times 10 &= 100\end{aligned}$$

February

7 times tables

$$1 \times 7 = 7$$

$$6 \times 7 = 42$$

$$11 \times 7 = 77$$

$$2 \times 7 = 14$$

$$7 \times 7 = 49$$

$$12 \times 7 = 84$$

$$3 \times 7 = 21$$

$$8 \times 7 = 56$$

$$4 \times 7 = 28$$

$$9 \times 7 = 63$$

$$5 \times 7 = 35$$

$$10 \times 7 = 70$$

Lesson 1

Monday 8th February 2021

LO: To add fractions within 1 (different denominators)

Watch voice over of lesson <https://youtu.be/g9ImPysbHng>

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Arithmetic

Flashback 4

Year 5 | Week 5 | Day 1



- 1) Which is greater, $\frac{5}{8}$ or $\frac{5}{9}$?
- 2) What comes next? $\frac{1}{10}, \frac{3}{10}, \frac{5}{10}, \dots$
- 3) Work out 22^2
- 4) Round 8,426 to the nearest hundred.

Key Vocabulary for today's lesson

- Fractions
- Add
- Denominator
- Numerator
- Common denominator
- Multiples
- Equivalent fraction

Throughout this lesson think about **how** you tackle the question. What way is the most efficient?
(quickest)

Today's lesson will be a practice/activity to get us started with adding fractions with a different denominator. Work through the activities, making sure you are following the steps to support you.

LO: To add fractions within 1 (different denominators)

Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

1. Find a common denominator
(A) multiply the denominators OR (B) list the multiples
 $2 \times 3 = 6$ $\frac{2}{3}: \frac{2}{3}, \frac{4}{6}, \frac{8}{12}$

2. Write equivalent fractions w/ the common denominator
 $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$ $\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$

3. Write the problem w/ equivalent fractions
 $\frac{1}{2} + \frac{2}{3} \rightarrow \frac{3}{6} + \frac{4}{6}$

4. Find the sum.
Add the numerators; denominator stays the SAME
 $\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$
 $\frac{1}{2} + \frac{2}{3} = \frac{7}{6}$ or $1\frac{1}{6}$
↑ improper fraction

5. Simplify, when needed

LO: To add fractions within 1 (different denominators)

Task: Recap from last week. Add fractions with the **same** denominator

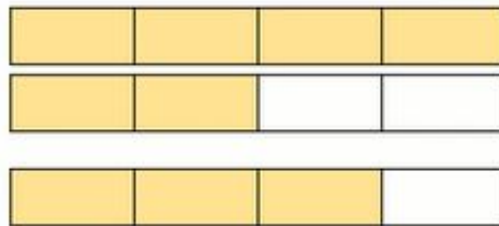
ADD Strategy:

Step 1:
Add the
numerators

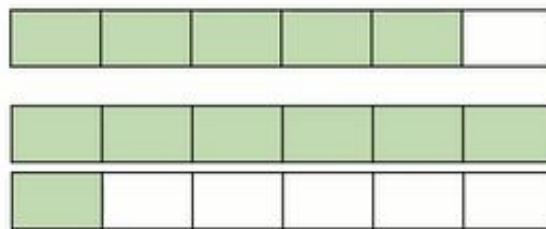
Step 2: Keep
the
denominators
the same

Step 3:
Simplify if
possible

$$1) \frac{6}{4} + \frac{3}{4} = \boxed{} = \boxed{}$$

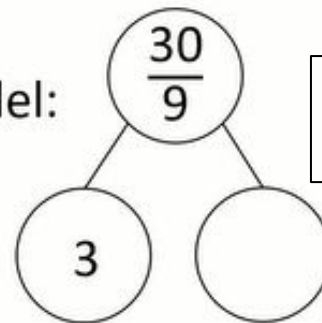


$$2) \frac{5}{6} + \frac{7}{6} = \boxed{} + \frac{1}{13}$$



hint=you will need to
make your answer an
equivalent fraction

3) Complete the part-whole model:



Hint: what can 3 wholes be the
same as with 9 as the
denominator?

LO: To add fractions within 1 (different denominators)

Recap answers

$\frac{9}{4}$ is an improper fraction so I converted it to 2 wholes and $\frac{1}{4}$ to make it into a mixed number.

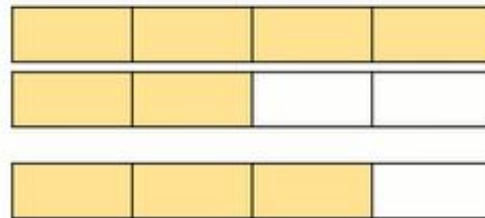
$\frac{5}{6} + \frac{7}{6} = \frac{12}{6}$ which is the same as 2 wholes.

Because there is $\frac{1}{13}$ on the right of the equals sign, I made 2 wholes into an equivalent fraction that has 13 as a denominator.

$\frac{26}{13}$ is the same as 2 wholes. I knew the missing fraction was $\frac{15}{13}$ because $\frac{25}{13} + \frac{1}{13} = \frac{26}{13}$

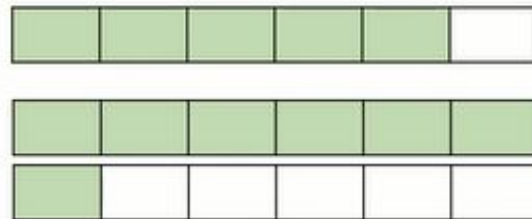
I know that 3 wholes would be the same as $\frac{27}{9}$ because 9 goes into 27, three times equally. Therefore the missing fraction is either $\frac{3}{9}$ or $\frac{1}{3}$ once simplified.
 $\frac{27}{9} + \frac{3}{9} (\frac{1}{3}) = \frac{30}{9}$

$$1) \frac{6}{4} + \frac{3}{4} = \boxed{\frac{9}{4}} = \boxed{2\frac{1}{4}}$$

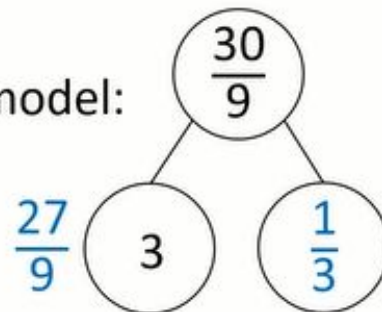


$$2) \frac{5}{6} + \frac{7}{6} = \boxed{\frac{25}{13}} + \frac{1}{13}$$

$$\frac{12}{6} = 2 \quad \frac{26}{13} = 2$$



3) Complete the part-whole model:



LO: To add fractions within 1 (different denominators)

My turn

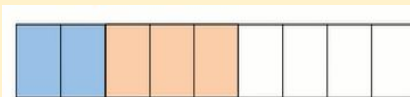
$$\frac{2}{9} + \frac{1}{3}$$

$$\frac{2}{9} + \frac{1}{3}$$

3) 3, 6, 9

$$\frac{2}{9} + \frac{1}{3} \times 3$$
$$\frac{3}{9}$$

$$\frac{2}{9} + \frac{3}{9} = \frac{5}{9}$$



Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples

I know that I can change 3 into 9 because it is a multiple of 3.

Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**

Step 3 re-write the addition with the new equivalent fractions

Step 4 Add the numerators only now that the denominators are the same

Step 5 Simplify if needed

LO: To add fractions within 1 (different denominators)

Your Turn:

$$\frac{1}{4} + \frac{1}{12}$$

Have a think



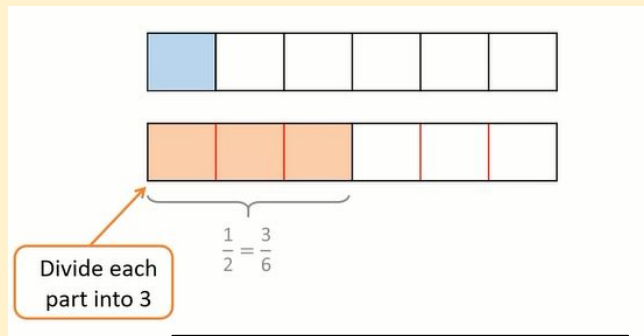
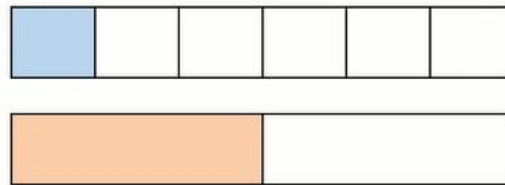
Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, ***remember that what you do to the bottom you do to the top***
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

LO: To add fractions within 1 (different denominators)

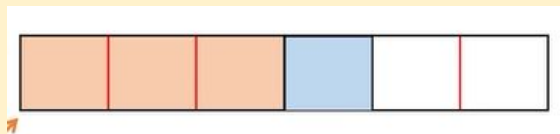
My turn

work out $\frac{1}{6} + \frac{1}{2}$



Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples

I know that I can change 2 into 6 because 6 is a multiple of 2



Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**

$$\frac{1}{6} + \frac{1}{2} = \frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3}$$

Step 3 re-write the addition with the new equivalent fractions

Step 4 Add the numerators only now that the denominators are the same

Step 5 Simplify if needed

LO: To add fractions within 1 (different denominators)

Your Turn:

1st one is done
for you

Strategy:

Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples

Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**

Re-write the addition with the new equivalent fractions

Add the numerators only now that the denominators are the same

Simplify if needed

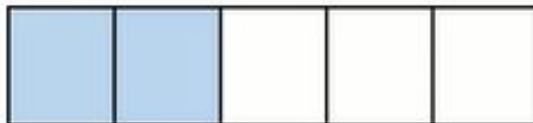
$$\frac{1}{2} + \frac{1}{8} = \frac{5}{8}$$



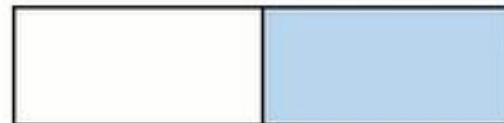
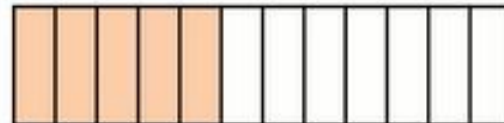
$$\frac{1}{6} + \frac{2}{3} =$$



$$\frac{4}{15} + \frac{2}{5} =$$



$$\frac{5}{12} + \frac{1}{2} =$$





1) Which is greater, $\frac{5}{8}$ or $\frac{5}{9}$?

$\frac{5}{8}$

2) What comes next? $\frac{1}{10}, \frac{3}{10}, \frac{5}{10}, \dots$

$\frac{7}{10}$

3) Work out 22^2

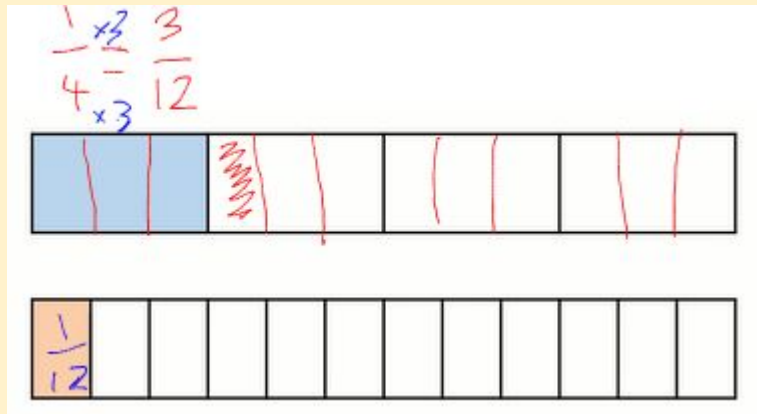
484

4) Round 8,426 to the nearest hundred.

8,400

LO: To add fractions within 1 (different denominators)

Your Turn:
ANSWER



I changed $\frac{1}{4}$ into $\frac{3}{12}$ because 4 could be multiplied by 3 to get to 12 for the denominator.

I did the same to the top

Handwritten work for adding $\frac{3}{12}$ and $\frac{1}{12}$. The equation shown is $\frac{3}{12} + \frac{1}{12} = \frac{4}{12} = \frac{1}{3}$. The final result $\frac{1}{3}$ is labeled "simplified".

I then added the numerators now that the denominators are the same

I also simplified by dividing the numerator and denominator by 4

LO: To add fractions within 1 (different denominators)

Your Turn:
ANSWER

$$\frac{1}{2} + \frac{1}{8} = \frac{5}{8}$$

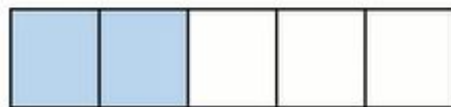


$$\frac{1}{6} + \frac{2}{3} = \frac{5}{6}$$



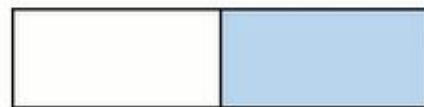
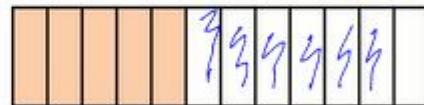
$$\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$$

$$\frac{4}{15} + \frac{2}{5} = \frac{10}{15} = \frac{2}{3}$$



$$\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$$

$$\frac{5}{12} + \frac{1}{2} = \frac{11}{12}$$



$$\frac{1}{2} \times \frac{6}{6} = \frac{6}{12}$$

LO: To add fractions within 1 (different denominators)

Independent Task

$$\frac{2}{3} + \frac{1}{6} = \boxed{}$$

$$\frac{1}{2} + \frac{1}{4} = \boxed{}$$

$$\frac{1}{4} + \frac{3}{8} = \boxed{}$$

$$\frac{1}{10} + \frac{4}{5} = \boxed{}$$

$$\frac{1}{5} + \frac{7}{10} = \boxed{}$$

$$\frac{5}{7} + \frac{3}{14} = \boxed{}$$

LO: To add fractions within 1 (different denominators)

Independent Task ANSWERS

$$\frac{2}{3} + \frac{1}{6} =$$

$$\frac{5}{6}$$

$$\frac{4}{6} + \frac{1}{6}$$

$$\frac{1}{2} + \frac{1}{4} =$$

$$\frac{3}{4}$$

$$\frac{2}{4} + \frac{1}{4}$$

$$\frac{1}{4} + \frac{3}{8} =$$

$$\frac{5}{8}$$

$$\frac{2}{8} + \frac{3}{8}$$

$$\frac{1}{10} + \frac{4}{5} =$$

$$\frac{9}{10}$$

$$\frac{1}{10} + \frac{8}{10}$$

$$\frac{1}{5} + \frac{7}{10} =$$

$$\frac{9}{10}$$

$$\frac{2}{10} + \frac{7}{10}$$

$$\frac{5}{7} + \frac{3}{14} =$$

$$\frac{13}{14}$$

$$\frac{10}{14} + \frac{3}{14}$$

Lesson 2

Tuesday 9th February 2021

LO: To add fractions within 1 (different denominators)

Watch voice over of lesson <https://youtu.be/8OvOq3e0qRE>

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Arithmetic

Flashback 4

Year 5 | Week 5 | Day 2



1) Which is greater, $\frac{7}{5}$ or $\frac{11}{10}$?

2) Change $\frac{5}{8}$ to sixteenths.

3) Divide 2,592 by 6

4) What is the value of the 4 in the number 8.41?

Key Vocabulary for today's lesson

- Fractions
- Add
- Denominator
- Numerator
- Common denominator
- Multiples
- Equivalent fraction

Throughout this lesson think about **how** you tackle the question. What way is the most efficient?
(quickest)

LO: To add fractions within 1 (different denominators)

Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

1. Find a common denominator
(A) multiply the denominators OR (B) list the multiples
 $2 \times 3 = 6$ $\frac{2}{3}: \frac{2}{3}, \frac{4}{6}, \frac{6}{9}, \frac{8}{12}$

2. Write equivalent fractions w/ the common denominator
 $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$ $\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$

3. Write the problem w/ equivalent fractions
 $\frac{1}{2} + \frac{2}{3} \rightarrow \frac{3}{6} + \frac{4}{6}$

4. Find the sum.
Add the numerators; denominator stays the SAME
 $\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$
 $\frac{1}{2} + \frac{2}{3} = \frac{7}{6}$ or $1\frac{1}{6}$
↑ improper fraction

5. Simplify, when needed

Watch video <https://vimeo.com/503393745>



My turn

I shaded in $\frac{1}{2}$
and i could see
it was the same
as $\frac{3}{6}$ so i
shaded that in.

I then added $\frac{1}{6}$
which equals
 $\frac{4}{6}$

a)



$$= \frac{4}{6}$$

$$\frac{1}{2} + \frac{1}{6} = \boxed{}$$

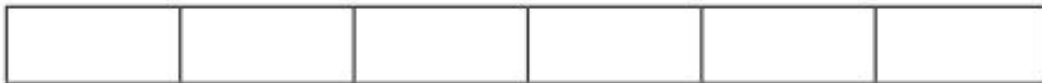
$$\begin{array}{r} \downarrow \\ 3 \\ \hline 6 \end{array}$$

$$\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$$

LO: To add fractions within 1 (different denominators)

Your Turn:

b)



$$\frac{1}{3} + \frac{1}{6} = \boxed{}$$

c)



$$\frac{2}{3} + \frac{1}{6} = \boxed{}$$

LO: To add fractions within 1 (different denominators)

My turn

$$\frac{11}{12} + \frac{1}{4} =$$

$$\frac{11}{12} + \frac{1}{4} \times 3$$

$$4 \overline{) 4, 8, (12)}$$

$$\frac{1}{4} = \frac{3}{12}$$

$$\frac{11}{12} + \frac{3}{12} = \frac{14}{12}$$

add numerators

$$\frac{14}{12} = \frac{7}{6} = 1 \frac{1}{6}$$

14/12 simplified is 7/6
because i divided by 2.

7/6 is an improper
fraction so i changed it
to a mixed number

LO: To add fractions within 1 (different denominators)

Your Turn:

Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, ***remember that what you do to the bottom you do to the top***
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

$$\frac{9}{10} + \frac{4}{5} =$$

My turn
problem
solving

$$\frac{5}{16} + \frac{\square}{8} = \frac{15}{16}$$

$$\frac{15}{16} - \frac{5}{16} = \frac{10}{16} = \frac{5}{8}$$

answer is 5

This question is asking for the missing numerator. Using the parts of the calculation I already have, I am able to do an inverse operation. So the addition turns into a subtraction and I do $15/16$ subtract $5/16$ which is $10/16$ I then simplified.

LO: To add fractions within 1 (different denominators)

Your Turn:
Problem
solving

$$\frac{11}{20} + \frac{\square}{10} = \frac{17}{20}$$

LO: To add fractions within 1 (different denominators)

INDEPENDENT WORK

First one
has been
done for
you

Strategy:

Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples

Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**

Re-write the addition with the new equivalent fractions

Add the numerators only now that the denominators are the same

Simplify if needed

2

Match the additions that have the same answer.

$$\begin{array}{r} 3 \times 3 \quad 9 \\ 4 \times 3 \quad 12 \end{array}$$

$$\frac{3}{4} + \frac{1}{12}$$

$$\frac{10}{12} + \frac{1}{12}$$

$$\frac{2}{3} + \frac{1}{12}$$

$$\frac{6}{12} + \frac{1}{12}$$

$$\frac{5}{6} + \frac{1}{12}$$

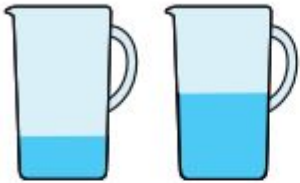
$$\frac{9}{12} + \frac{1}{12}$$

$$\frac{1}{2} + \frac{1}{12}$$

$$\frac{8}{12} + \frac{1}{12}$$

LO: To add fractions within 1 (different denominators)

INDEPENDENT WORK

- 3 Here are two jugs.
- 
- One jug contains $\frac{5}{18}$ litres of water.
- The other jug contains $\frac{4}{9}$ litres of water.
- How many litres of water are there altogether?

There are litres of water altogether.

- 4 a) Complete the calculations.

$$\frac{1}{5} + \frac{1}{10} = \boxed{}$$

$$\frac{2}{5} + \frac{1}{10} = \boxed{}$$

$$\frac{3}{5} + \frac{1}{10} = \boxed{}$$

$$\frac{4}{5} + \frac{1}{10} = \boxed{}$$

$$\frac{1}{16} + \frac{5}{32} = \boxed{}$$

$$\frac{1}{8} + \frac{5}{32} = \boxed{}$$

$$\frac{1}{4} + \frac{5}{32} = \boxed{}$$

$$\frac{1}{2} + \frac{5}{32} = \boxed{}$$

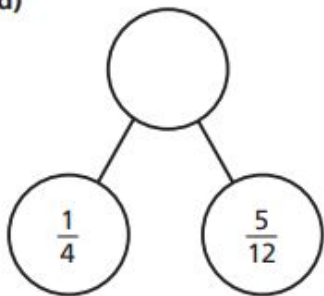
- b) Can you spot any patterns? Talk to a partner about it.
- c) What calculation would come next in each set?

LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK

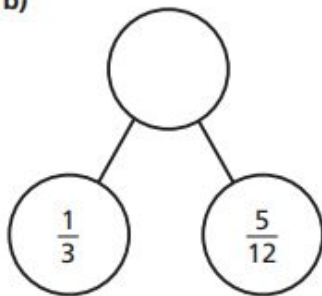
5

Complete the part-whole models.

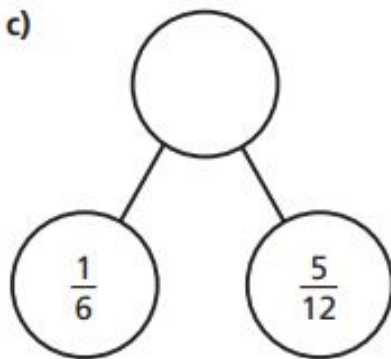
a)



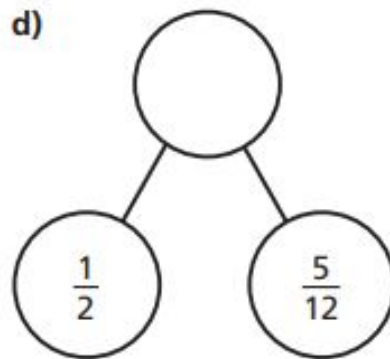
b)



c)



d)



LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK

6

$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

What could the missing numerators be?

Give six different possibilities.

$$\frac{\boxed{1}}{8} + \frac{\boxed{5}}{16} = \frac{7}{8}$$

$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

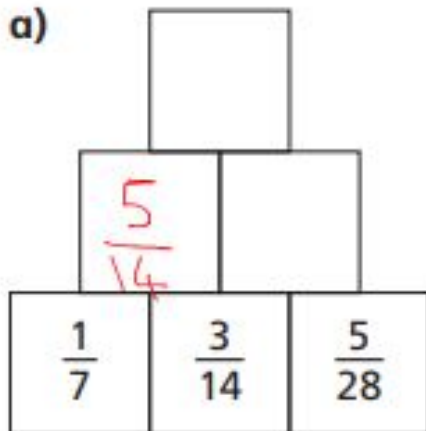
$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK

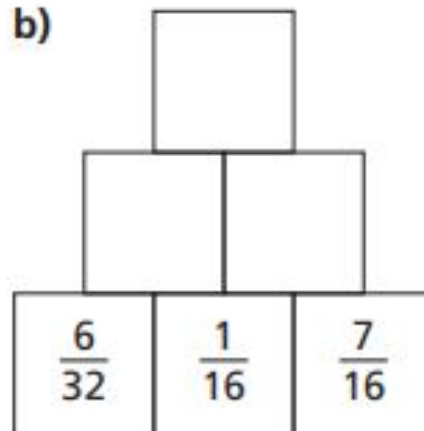
7

Complete the addition pyramids.

a)



b)



c) What fraction is equivalent to both of the fractions at the top of the pyramids?



1) Which is greater, $\frac{7}{5}$ or $\frac{11}{10}$? $\frac{7}{5}$

2) Change $\frac{5}{8}$ to sixteenths. $\frac{10}{16}$

3) Divide 2,592 by 6 432

4) What is the value of the 4 in the number 8.41?

4 tenths

LO: To add fractions within 1 (different denominators)

Your Turn:
Problem
solving
ANSWER

$$\frac{11}{20} + \frac{3}{10} = \frac{17}{20}$$

$$\frac{17}{20} - \frac{11}{20} = \frac{6}{20} = \frac{3}{10}$$

LO: To add fractions within 1 (different denominators)

Your Turn
ANSWERS:

b)



$$\frac{1}{3} + \frac{1}{6} = \boxed{\frac{3}{6}}$$

$$\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$$

c)



$$\frac{2}{3} + \frac{1}{6} = \boxed{\frac{5}{6}}$$

$$\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$$

LO: To add fractions within 1 (different denominators)

Your Turn
ANSWERS
:

$$\frac{9}{10} + \frac{4}{5} \begin{matrix} \times 2 \\ \times 2 \end{matrix}$$

$$\boxed{1 \frac{7}{10}}$$

↓

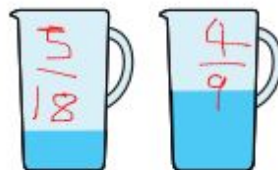
$$\frac{9}{10} + \frac{8}{10} = \frac{17}{10} = 1 \frac{7}{10}$$

LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK ANSWERS

2 Match the additions that have the same answer.

$\frac{3}{4} + \frac{1}{12}$	$\frac{10}{12} + \frac{1}{12}$
$\frac{2}{3} + \frac{1}{12}$	$\frac{6}{12} + \frac{1}{12}$
$\frac{5}{6} + \frac{1}{12}$	$\frac{9}{12} + \frac{1}{12}$
$\frac{1}{2} + \frac{1}{12}$	$\frac{8}{12} + \frac{1}{12}$

3 Here are two jugs.



One jug contains $\frac{5}{18}$ litres of water.

The other jug contains $\frac{4}{9}$ litres of water.

How many litres of water are there altogether? **ADD**

$$\frac{5}{18} + \frac{4}{9} = \frac{13}{18}$$

(Handwritten calculation showing the addition of 5/18 and 4/9, with 4/9 converted to 8/18, resulting in 13/18.)

There are $\frac{13}{18}$ litres of water altogether.

LO: To add fractions within 1 (different denominators)

INDEPENDENT WORK ANSWERS

4

a) Complete the calculations.

$$\frac{1}{5} + \frac{1}{10} = \boxed{\frac{3}{10}}$$

$$\frac{2}{5} + \frac{1}{10} = \boxed{\frac{5}{10}}$$

$$\frac{3}{5} + \frac{1}{10} = \boxed{\frac{7}{10}}$$

$$\frac{4}{5} + \frac{1}{10} = \boxed{\frac{9}{10}}$$

$(\frac{1}{2})$

$$\frac{1}{16} + \frac{5}{32} = \boxed{\frac{7}{32}}$$

$$\frac{1}{8} + \frac{5}{32} = \boxed{\frac{9}{32}}$$

$$\frac{1}{4} + \frac{5}{32} = \boxed{\frac{13}{32}}$$

$$\frac{1}{2} + \frac{5}{32} = \boxed{\frac{21}{32}}$$

b) Can you spot any patterns? Talk to a partner about it.

c) What calculation would come next in each set?

$$\frac{5}{5} + \frac{1}{10} = \frac{11}{10} = 1\frac{1}{10}$$

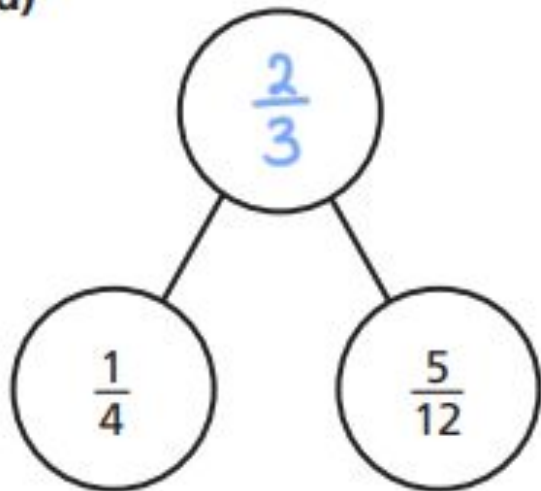
$$\frac{1}{1} + \frac{5}{32} = 1\frac{5}{32}$$

LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK ANSWERS

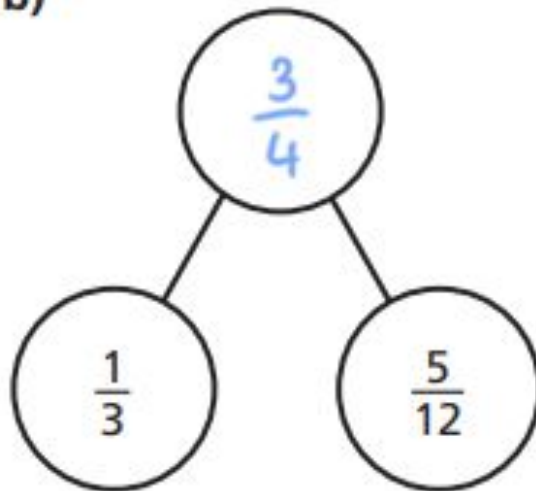
5

Complete the part-whole models.

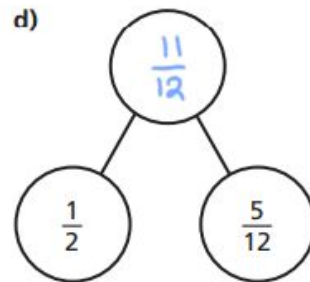
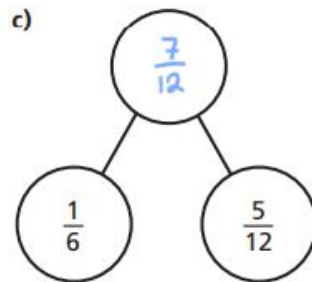
a)



b)



LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK ANSWERS



6

$$\frac{\boxed{}}{8} + \frac{\boxed{}}{16} = \frac{7}{8}$$

What could the missing numerators be?

Give six different possibilities.

$$\frac{\boxed{1}}{8} + \frac{\boxed{12}}{16} = \frac{7}{8}$$

$$\frac{\boxed{3}}{8} + \frac{\boxed{8}}{16} = \frac{7}{8}$$

$$\frac{\boxed{5}}{8} + \frac{\boxed{4}}{16} = \frac{7}{8}$$

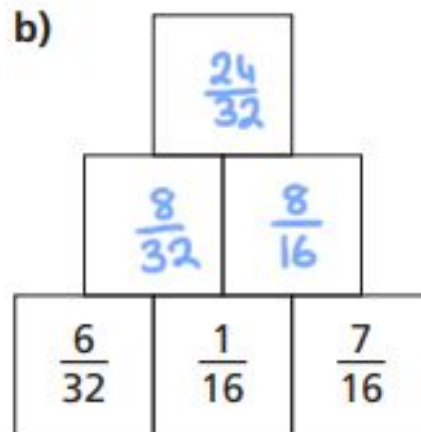
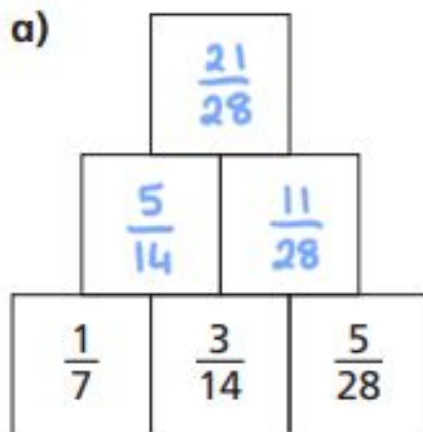
$$\frac{\boxed{2}}{8} + \frac{\boxed{10}}{16} = \frac{7}{8}$$

$$\frac{\boxed{4}}{8} + \frac{\boxed{6}}{16} = \frac{7}{8}$$

$$\frac{\boxed{6}}{8} + \frac{\boxed{2}}{16} = \frac{7}{8}$$

LO: To add fractions within 1 (different denominators)
INDEPENDENT WORK ANSWERS

7 Complete the addition pyramids.



c) What fraction is equivalent to both of the fractions at the top of the pyramids?

$\frac{3}{4}$

Lesson 3

Wednesday 10th February 2021

LO: To add 3 or more fractions (with different denominators)

<https://youtu.be/UiR4sw2UfRM>

Times Table Rockstars <https://ttrackstars.com/>.

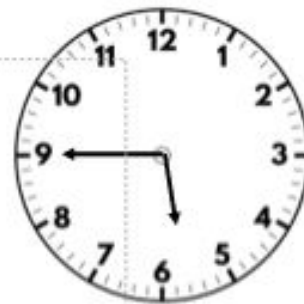
Everyday please log into Times Tables RockStars
(TTRS)

You have been sent login details, if you are
unsure please contact your teacher

Arithmetic

Flashback 4

Year 5 | Week 5 | Day 3



- 1) Which is greater, $1\frac{3}{4}$ or $1\frac{3}{7}$?
- 2) What fraction is missing? $\frac{9}{7}, \frac{7}{7}, \text{---}, \frac{3}{7}$
- 3) Multiply 56 by 32
- 4) Round 7.6 to the nearest whole number.

Key Vocabulary for today's lesson

- Fractions
- Add
- Denominator
- Numerator
- Common denominator
- Multiples
- Equivalent fraction

Throughout this lesson think about **how** you tackle the question. What way is the most efficient?
(quickest)

Watch video <https://vimeo.com/504416042>



LO: To add fractions within 1 (different denominators)

Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

1. Find a common denominator
(A) multiply the denominators OR (B) list the multiples
 $2 \times 3 = 6$ $\frac{2}{3}: \frac{2}{3}, \frac{4}{6}, \frac{8}{12}$

2. Write equivalent fractions w/ the common denominator
 $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$ $\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$

3. Write the problem w/ equivalent fractions
 $\frac{1}{2} + \frac{2}{3} \rightarrow \frac{3}{6} + \frac{4}{6}$

4. Find the sum.
Add the numerators; denominator stays the SAME
 $\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$
 $\frac{1}{2} + \frac{2}{3} = \frac{7}{6}$ or $1\frac{1}{6}$
↑ improper fraction

5. Simplify, when needed

LO: To add 3 or more fractions (with different denominators)

My turn

a)

--	--	--	--	--	--	--	--	--	--	--	--

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \boxed{}$$

I found that the common denominator would be 12.

I converted fractions so that they all had 12 as their denominators

I then could add the numerators

a)

$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$		
---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	--	--

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \boxed{\frac{10}{12}} = \frac{5}{6}$$

common
denom = 12

$$\frac{1}{2} \times \frac{6}{6} = \frac{6}{12}$$

$$\frac{1}{4} \times \frac{3}{3} = \frac{3}{12}$$

$$\frac{1}{12} = \frac{1}{12}$$

LO: To add 3 or more fractions (with different denominators)

Your Turn:

Remember to find the
common denominator
first

b)

--	--	--	--	--	--	--	--	--	--	--	--

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \boxed{}$$

c)

--	--	--	--	--	--	--	--	--	--	--	--

$$\frac{2}{3} + \frac{1}{6} + \frac{1}{12} = \boxed{}$$

d)

--	--	--	--	--	--	--	--	--	--	--	--

$$\frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \boxed{}$$

My turn problem solving

Eva is attempting to answer:

$$\frac{3}{5} + \frac{1}{10} + \frac{3}{20}$$



$$\frac{3}{5} + \frac{1}{10} + \frac{3}{20} = \frac{7}{35}$$

Do you agree with Eva?
Explain why.

$$\begin{array}{ccc} \frac{3}{5} \times 4 & + & \frac{1}{10} \times 2 & + & \frac{3}{20} \times 1 \\ \downarrow & & \downarrow & & \downarrow \\ \frac{12}{20} & + & \frac{2}{20} & + & \frac{3}{20} \\ & & & & \\ & & & & = \frac{17}{20} \end{array}$$

Eva is wrong because she has added the numerators and denominators together and hasn't found a common denominator. The correct answer is $\frac{17}{20}$

My turn problem solving

Farmer Staneff owns a field.

He plants carrots on $\frac{1}{3}$ of the field.

He plants potatoes on $\frac{2}{9}$ of the field.

He plants onions on $\frac{5}{18}$ of the field.

What fraction of the field is covered altogether?

$$\begin{array}{ccc} \frac{1}{3} \times 6 & \frac{2}{9} \times 2 & \frac{5}{18} \\ \hline \frac{6}{18} & + \frac{4}{18} & + \frac{5}{18} \\ \hline \frac{6}{18} + \frac{4}{18} + \frac{5}{18} & = & \frac{15}{18} \div 3 = \frac{5}{6} \end{array}$$

LO: To add 3 or more fractions (with different denominators)
INDEPENDENT TASK

2

Complete the additions.

a) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20} =$

b) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8} =$

c) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12} =$

d) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4} =$

e) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9} =$

f) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7} =$

LO: To add 3 or more fractions (with different denominators)
INDEPENDENT TASK

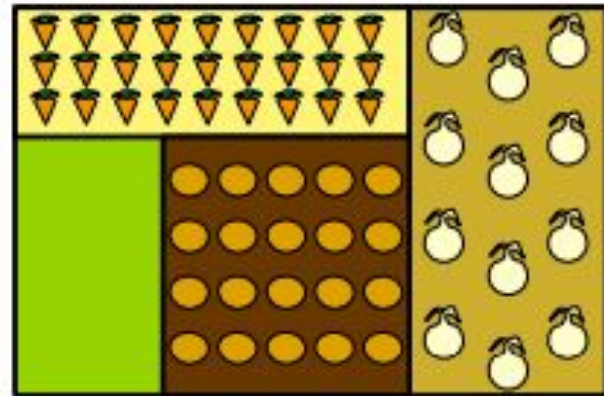
3

Rosie has a vegetable patch.

$\frac{2}{9}$ of the patch contains carrots.

$\frac{5}{18}$ of the patch contains potatoes.

$\frac{1}{3}$ of the patch contains onions.



What fraction of the patch contains carrots, potatoes or onions?

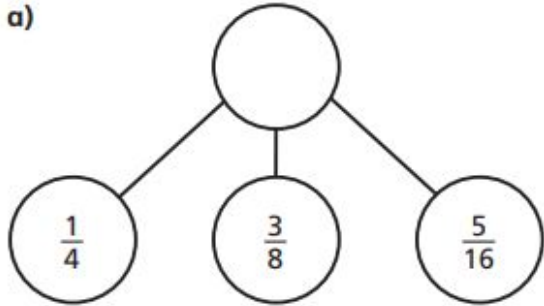
LO: To add 3 or more fractions (with different denominators)

INDEPENDENT TASK

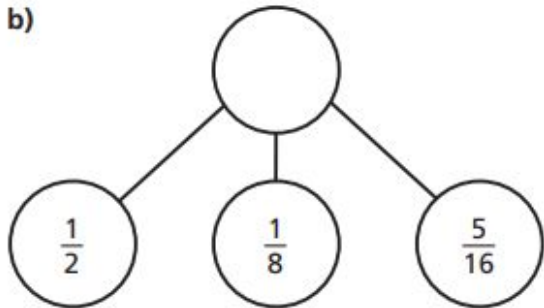
4

Complete the part-whole models.

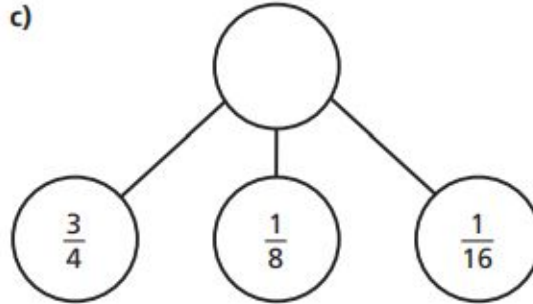
a)



b)



c)



d) Which one of the part-whole models is the odd one out?

Is there more than one answer?

Explain how you know.

LO: To add 3 or more fractions (with different denominators)
INDEPENDENT TASK

5

Fill in the missing numerators.

$$\text{a) } \frac{1}{8} + \frac{\boxed{}}{16} + \frac{3}{8} = \frac{5}{8}$$

$$\text{b) } \frac{1}{8} + \frac{\boxed{}}{16} + \frac{3}{8} = \frac{7}{8}$$

$$\text{c) } \frac{1}{4} + \frac{\boxed{}}{16} + \frac{3}{8} = \frac{3}{4}$$

$$\text{d) } \frac{1}{8} + \frac{\boxed{}}{16} + \frac{1}{4} = \frac{3}{4}$$

$$\text{e) } \frac{1}{8} + \frac{1}{16} + \frac{\boxed{}}{16} = \frac{3}{4}$$

$$\text{f) } \frac{1}{4} + \frac{1}{16} + \frac{\boxed{}}{16} = \frac{3}{4}$$

LO: To add 3 or more fractions (with different denominators)

INDEPENDENT TASK

6

Complete the number square.

The total of each column is $\frac{4}{5}$


The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	
	$\frac{1}{10}$	
$\frac{7}{20}$		

Arithmetic

Flashback **4**

Year 5 | Week 5 | Day 3



1) Which is greater, $1\frac{3}{4}$ or $1\frac{3}{7}$? $1\frac{3}{4}$

2) What fraction is missing? $\frac{9}{7}, \frac{7}{7}, \text{---}, \frac{3}{7}$ $\frac{5}{7}$

3) Multiply 56 by 32 $1,792$

4) Round 7.6 to the nearest whole number. 8

LO: To add 3 or more fractions (with different denominators)

Your Turn:
ANSWERS

b)



$$\frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \frac{11}{12}$$

c)



$$\frac{2}{3} + \frac{1}{6} + \frac{1}{12} = \frac{11}{12}$$

d)



$$\frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \frac{3}{4}$$

LO: To add 3 or more fractions (with different denominators)
INDEPENDENT TASK ANSWERS

2

Complete the additions.

$$\text{a) } \frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \boxed{\frac{17}{20}}$$

$$\text{b) } \frac{1}{16} + \frac{5}{32} + \frac{3}{8} = \boxed{\frac{19}{32}}$$

$$\text{c) } \frac{1}{4} + \frac{5}{24} + \frac{5}{12} = \boxed{\frac{7}{8}}$$

$$\text{d) } \frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \boxed{\frac{15}{16}}$$

$$\text{e) } \frac{1}{2} + \frac{5}{18} + \frac{1}{9} = \boxed{\frac{8}{9}}$$

$$\text{f) } \frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \boxed{\frac{5}{7}}$$

LO: To add 3 or more fractions (with different denominators)

INDEPENDENT TASK ANSWERS

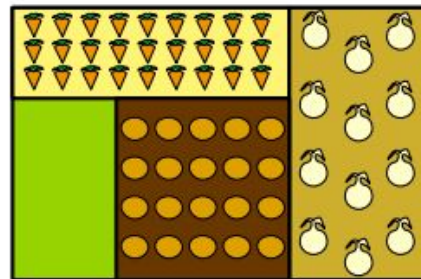
3

Rosie has a vegetable patch.

$\frac{2}{9}$ of the patch contains carrots.

$\frac{5}{18}$ of the patch contains potatoes.

$\frac{1}{3}$ of the patch contains onions.



What fraction of the patch contains carrots, potatoes or onions?

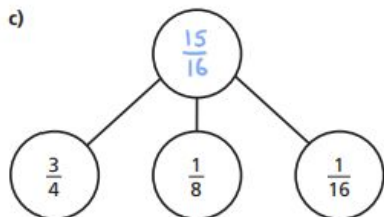
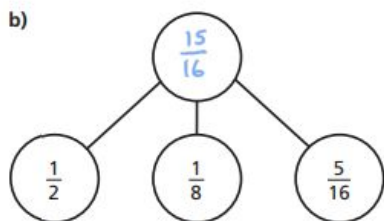
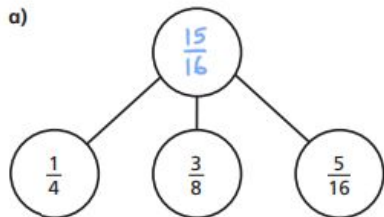
$$\frac{5}{6}$$

of the patch contains carrots, potatoes or onions.

LO: To add 3 or more fractions (with different denominators)

INDEPENDENT TASK ANSWERS

4 Complete the part-whole models.



5 Fill in the missing numerators.

a) $\frac{1}{8} + \frac{\boxed{2}}{16} + \frac{3}{8} = \frac{5}{8}$

b) $\frac{1}{8} + \frac{\boxed{6}}{16} + \frac{3}{8} = \frac{7}{8}$

c) $\frac{1}{4} + \frac{\boxed{2}}{16} + \frac{3}{8} = \frac{3}{4}$

d) $\frac{1}{8} + \frac{\boxed{6}}{16} + \frac{1}{4} = \frac{3}{4}$

e) $\frac{1}{8} + \frac{1}{16} + \frac{\boxed{9}}{16} = \frac{3}{4}$

f) $\frac{1}{4} + \frac{1}{16} + \frac{\boxed{7}}{16} = \frac{3}{4}$

LO: To add 3 or more fractions (with different denominators)

INDEPENDENT TASK ANSWERS

6

Complete the number square.

The total of each column is $\frac{4}{5}$

The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	$\frac{1}{10}$
$\frac{3}{20}$	$\frac{1}{10}$	$\frac{11}{20}$
$\frac{7}{20}$	$\frac{3}{10}$	$\frac{3}{20}$

Thursday 11th february 2021

LO: To add fractions

<https://youtu.be/JWYEdA-LSqY>

Times Table Rockstars <https://ttrackstars.com/>.

Everyday please log into Times Tables RockStars
(TTRS)

You have been sent login details, if you are
unsure please contact your teacher

Arithmetic

Flashback

4

Year 5 | Week 5 | Day 4



1) Work out $\frac{3}{5} + \frac{3}{10}$

2) Which is greater, $\frac{3}{4}$ or $\frac{7}{8}$?

3) Work out $1,771 \div 7$

4) Chocolate bars cost 35p
How much do six chocolate bars cost?

Watch video <https://vimeo.com/505801286>



Key Vocabulary for today's lesson

- Fractions
- Add
- Denominator
- Numerator
- Common denominator
- Multiples
- Equivalent fraction

Throughout this lesson think about **how** you tackle the question. What way is the most efficient?
(quickest)

Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

1. Find a common denominator
(A) multiply the denominators OR (B) list the multiples
 $2 \times 3 = 6$ $\frac{2}{3}: \frac{2}{3}, \frac{4}{6}, \frac{6}{9}, \frac{8}{12}$

2. Write equivalent fractions w/ the common denominator
 $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$ $\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$

3. Write the problem w/ equivalent fractions
 $\frac{1}{2} + \frac{2}{3} \rightarrow \frac{3}{6} + \frac{4}{6}$

4. Find the sum.
Add the numerators; denominator stays the **SAME**
 $\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$
 $\frac{1}{2} + \frac{2}{3} = \frac{7}{6}$ or $1\frac{1}{6}$
↑ improper fraction

5. Simplify, when needed

My turn

$$\frac{2}{3} + \frac{1}{6} + \frac{7}{12}$$

$$\begin{array}{ccc} \frac{2}{3} & + & \frac{1}{6} & + & \frac{7}{12} \\ \downarrow \times 4 & & \downarrow \times 2 & & \downarrow \\ \frac{8}{12} & + & \frac{2}{12} & + & \frac{7}{12} = \frac{17}{12} = 1 \frac{5}{12} \end{array}$$

To convert $\frac{17}{12}$ to a mixed number I knew 12 goes into 17 once and 5 left over
denom stays the same

LO: To add fractions

Your Turn:

$$\frac{1}{4} + \frac{7}{8} + \frac{3}{16}$$

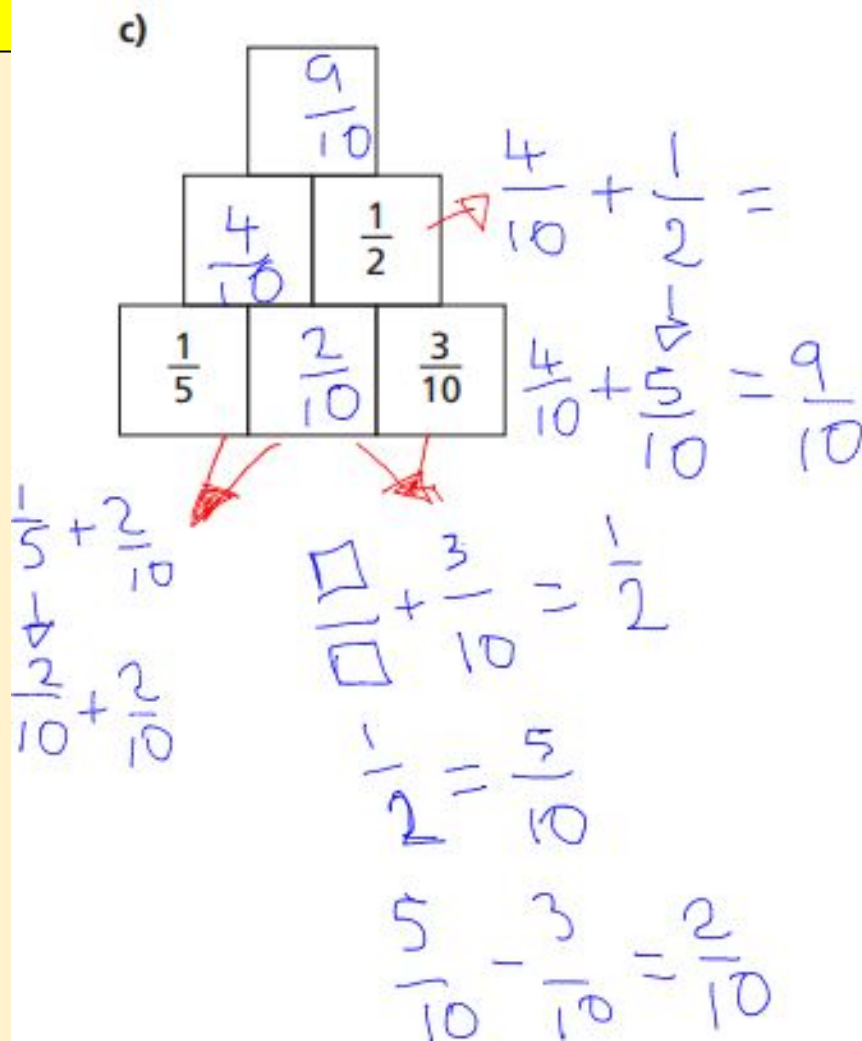
Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, ***remember that what you do to the bottom you do to the top***
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

How do I know when a
fraction is in its
simplest form?

My turn

I started at the bottom of the pyramid and had to use the inverse to work out the missing fractions.



LO: To add fractions
INDEPENDENT WORK

2

Complete the additions.

a) $\frac{4}{5} + \frac{7}{20} = \boxed{} = \boxed{}$

d) $\frac{4}{3} + \frac{5}{12} = \boxed{} = \boxed{}$

b) $\frac{5}{4} + \frac{7}{20} = \boxed{} = \boxed{}$

e) $\frac{3}{5} + \frac{11}{15} = \boxed{} = \boxed{}$

c) $\frac{3}{4} + \frac{5}{12} = \boxed{} = \boxed{}$

f) $\frac{5}{3} + \frac{11}{15} = \boxed{} = \boxed{}$

LO: To add fractions
INDEPENDENT WORK

3

Match the additions that have the same answer.

$$\frac{3}{5} + \frac{9}{20}$$

$$\frac{16}{20} + \frac{9}{20}$$

$$\frac{3}{4} + \frac{9}{20}$$

$$\frac{12}{20} + \frac{9}{20}$$

$$\frac{4}{5} + \frac{9}{20}$$

$$\frac{14}{20} + \frac{9}{20}$$

$$\frac{7}{10} + \frac{9}{20}$$

$$\frac{15}{20} + \frac{9}{20}$$

LO: To add fractions
INDEPENDENT WORK

4

Dexter has some tins of food. There are four types of food: beans, sweetcorn, soup and tomatoes.

- The total weight of all the tins is 2 kg.
- The tins of beans weigh $\frac{2}{3}$ kg.
- The tins of sweetcorn weigh $\frac{5}{12}$ kg.
- The tins of soup weigh $\frac{1}{4}$ kg.



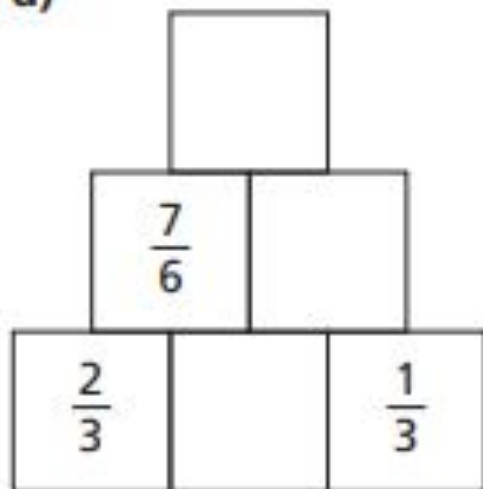
- a) Work out the total weight of the tins of beans, sweetcorn and soup.

LO: To add fractions
INDEPENDENT WORK

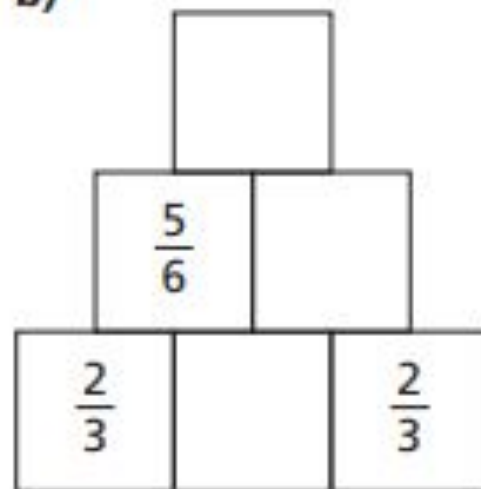
5

Complete the addition pyramids.

a)



b)



LO: To add fractions
INDEPENDENT WORK

6 What could the three missing numerators be?

1st one done for you. Check answers to see if correct. Like what I did below

$$\frac{\boxed{}}{4} + \frac{\boxed{}}{12} + \frac{\boxed{}}{3} = \frac{13}{12}$$

Give three different possibilities.

$$\frac{\boxed{1}}{4} + \frac{\boxed{2}}{12} + \frac{\boxed{2}}{3} = \frac{13}{12}$$

$$\frac{\boxed{}}{4} + \frac{\boxed{}}{12} + \frac{\boxed{}}{3} = \frac{13}{12}$$

$$\frac{\boxed{}}{4} + \frac{\boxed{}}{12} + \frac{\boxed{}}{3} = \frac{13}{12}$$

common denom = 12

$$\begin{array}{c} \frac{1}{4} + \frac{2}{12} + \frac{2}{3} \\ \downarrow \times 3 \quad \downarrow \quad \downarrow \times 4 \\ \frac{3}{12} + \frac{2}{12} + \frac{8}{12} = \frac{13}{12} \end{array}$$



1) Work out $\frac{3}{5} + \frac{3}{10}$

$$\frac{9}{10}$$

2) Which is greater, $\frac{3}{4}$ or $\frac{7}{8}$?

$$\frac{7}{8}$$

3) Work out $1,771 \div 7$

$$253$$

4) Chocolate bars cost 35p
How much do six chocolate bars cost?

£2.10

LO: To add fractions ANSWERS

YcYour Turn:

$$\frac{1}{4} + \frac{7}{8} + \frac{3}{16}$$

Handwritten annotations: $\times 4$ under 4, $\times 2$ under 8, and $\times 1$ under 16. Red arrows point from each denominator to the common denominator 16 below.

$$\frac{4}{16} + \frac{14}{16} + \frac{3}{16}$$

$$= \frac{21}{16} = 1\frac{5}{16}$$

Strategy:

1. Step 1: what number can the denominators be? This will be the common denominator. They will be multiples of the same number. Find the multiples
2. Step 2: change the bottom to the common denominator, **remember that what you do to the bottom you do to the top**
3. Re-write the addition with the new equivalent fractions
4. Add the numerators only now that the denominators are the same
5. Simplify if needed

LO: To add fractions
INDEPENDENT WORK ANSWERS

2

Complete the additions.

$$\text{a) } \frac{4}{5} + \frac{7}{20} = \boxed{\frac{23}{20}} = \boxed{1\frac{3}{20}}$$

$$\text{d) } \frac{4}{3} + \frac{5}{12} = \boxed{\frac{21}{12}} = \boxed{1\frac{3}{4}}$$

$$\text{b) } \frac{5}{4} + \frac{7}{20} = \boxed{\frac{32}{20}} = \boxed{1\frac{3}{5}}$$

$$\text{e) } \frac{3}{5} + \frac{11}{15} = \boxed{\frac{20}{15}} = \boxed{1\frac{1}{3}}$$

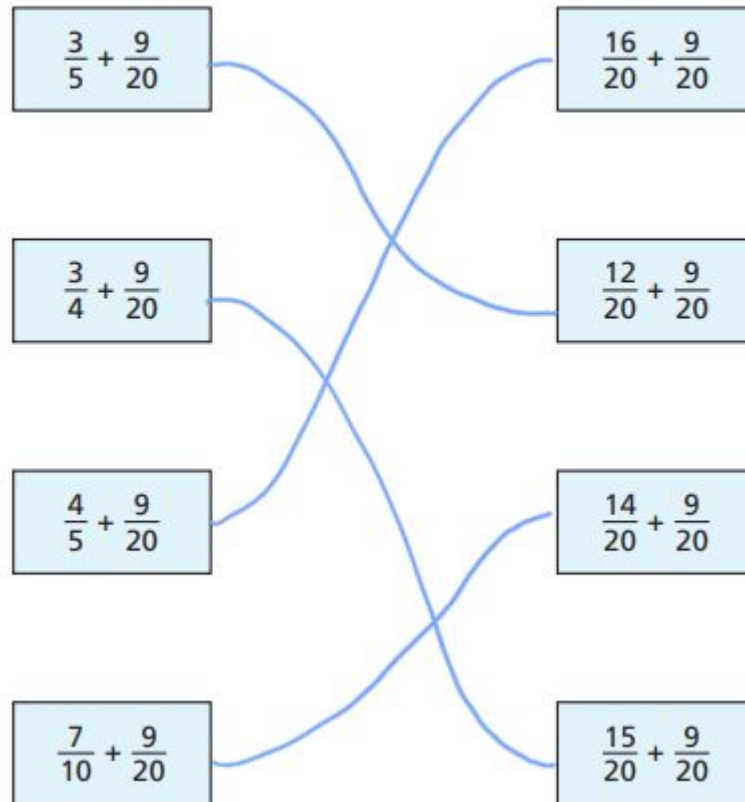
$$\text{c) } \frac{3}{4} + \frac{5}{12} = \boxed{\frac{14}{12}} = \boxed{1\frac{1}{6}}$$

$$\text{f) } \frac{5}{3} + \frac{11}{15} = \boxed{\frac{36}{15}} = \boxed{2\frac{2}{5}}$$

LO: To add fractions
INDEPENDENT WORK ANSWERS

3

Match the additions that have the same answer.



LO: To add fractions
INDEPENDENT WORK ANSWERS

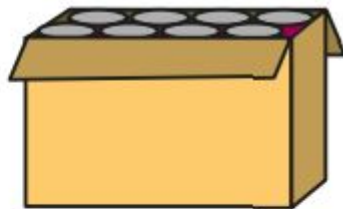
- 4 Dexter has some tins of food. There are four types of food: beans, sweetcorn, soup and tomatoes.

- The total weight of all the tins is 2 kg.

- The tins of beans weigh $\frac{2}{3}$ kg.

- The tins of sweetcorn weigh $\frac{5}{12}$ kg.

- The tins of soup weigh $\frac{1}{4}$ kg.



- a) Work out the total weight of the tins of beans, sweetcorn and soup.

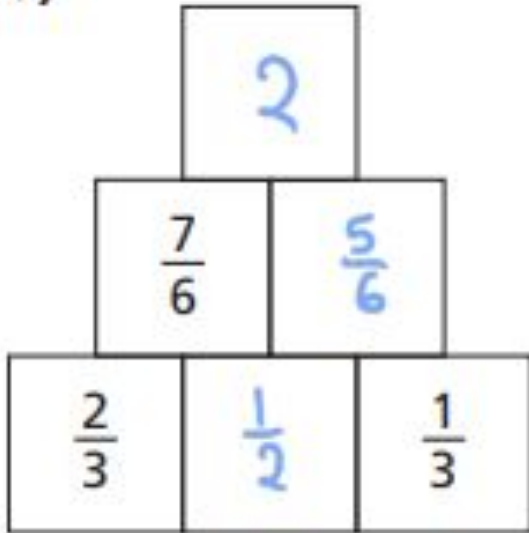
$$\frac{2}{3} + \frac{5}{12} + \frac{1}{4} = \frac{16}{12} = 1\frac{4}{12} = 1\frac{1}{3} \text{ kg}$$
$$\frac{8}{12} + \frac{5}{12} + \frac{3}{12} =$$

LO: To add fractions
INDEPENDENT WORK ANSWERS

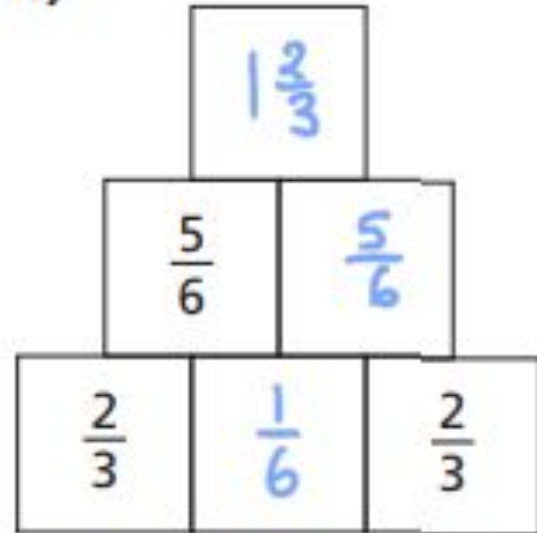
5

Complete the addition pyramids.

a)



b)



LO: To add fractions
INDEPENDENT WORK ANSWERS

6

What could the three missing numerators be?

$$\frac{\boxed{}}{4} + \frac{\boxed{}}{12} + \frac{\boxed{}}{3} = \frac{13}{12}$$

Give three different possibilities.

$$\frac{\boxed{1}}{4} + \frac{\boxed{6}}{12} + \frac{\boxed{1}}{3} = \frac{13}{12}$$

$$\frac{\boxed{2}}{4} + \frac{\boxed{3}}{12} + \frac{\boxed{1}}{3} = \frac{13}{12}$$

$$\frac{\boxed{1}}{4} + \frac{\boxed{2}}{12} + \frac{\boxed{2}}{3} = \frac{13}{12}$$

Various answers

Friday 12th February 2021

LO: add fractions

<https://youtu.be/WjoBo3PDn6M>

Times Table Rockstars <https://ttrackstars.com/>.

Everyday please log into Times Tables RockStars
(TTRS)

You have been sent login details, if you are
unsure please contact your teacher



- 1) What is $1 - \frac{3}{8}$?
- 2) Which is the smaller fraction, $\frac{2}{5}$ or $\frac{2}{7}$?
- 3) Multiply 108 by 12
- 4) Subtract 405 from 1000

Key Vocabulary for today's lesson

- Fractions
- Add
- Denominator
- Numerator
- Common denominator
- Multiples
- Equivalent fraction

Throughout this lesson think about **how** you tackle the question. What way is the most efficient?
(quickest)

Today you are going to practice your learning from this week

Go back to lessons earlier this week to remind yourself of how to add fractions with different denominators.

Please also complete your times tables
rockstars

My turn problem solving

Eva is attempting to answer:

$$\frac{3}{5} + \frac{1}{10} + \frac{3}{20}$$



$$\frac{3}{5} + \frac{1}{10} + \frac{3}{20} = \frac{7}{35}$$

Do you agree with Eva?
Explain why.

$$\begin{array}{ccc} \frac{3}{5} \times 4 & + & \frac{1}{10} \times 2 & + & \frac{3}{20} \times 1 \\ \hline \frac{12}{20} & + & \frac{2}{20} & + & \frac{3}{20} \\ \hline & & \frac{17}{20} \end{array}$$

Eva is wrong because she has added the numerators and denominators together and hasn't found a common denominator. The correct answer is $\frac{17}{20}$

LO: To add fractions
INDEPENDENT TASK

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \boxed{}$$

$$\frac{7}{8} + \frac{3}{4} + \frac{3}{16} = \boxed{}$$

$$\frac{1}{6} + \frac{1}{3} + \frac{5}{12} = \boxed{}$$

$$\frac{1}{2} + \frac{5}{8} + \frac{1}{16} = \boxed{}$$

$$\frac{1}{4} + \frac{5}{8} + \frac{1}{2} = \boxed{}$$

$$\frac{5}{6} + \frac{1}{2} + \frac{7}{12} = \boxed{}$$

$$\frac{5}{6} + \frac{1}{12} + \frac{1}{2} = \boxed{}$$

$$\frac{3}{8} + \frac{3}{4} + \frac{7}{8} = \boxed{}$$

LO: To add fractions
INDEPENDENT TASK

Annie solved this calculation.



The notebook shows the following calculation:

$$\frac{3}{4} + \frac{3}{16} = \frac{3+3}{4+16}$$
$$= \frac{6}{20}$$
$$= \frac{3}{10}$$

Can you spot and explain her mistake?



1) What is $1 - \frac{3}{8}$?

$\frac{5}{8}$

2) Which is the smaller fraction, $\frac{2}{5}$ or $\frac{2}{7}$?

$\frac{2}{7}$

3) Multiply 108 by 12

1,296

4) Subtract 405 from 1000

595

LO: To add fractions
INDEPENDENT TASK ANSWERS

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \boxed{\frac{7}{8}}$$

$$\frac{7}{8} + \frac{3}{4} + \frac{3}{16} = \boxed{1 \frac{13}{16}}$$

$$\frac{1}{6} + \frac{1}{3} + \frac{5}{12} = \boxed{\frac{11}{12}}$$

$$\frac{1}{2} + \frac{5}{8} + \frac{1}{16} = \boxed{1 \frac{3}{16}}$$

$$\frac{1}{4} + \frac{5}{8} + \frac{1}{2} = \boxed{1 \frac{3}{8}}$$

$$\frac{5}{6} + \frac{1}{2} + \frac{7}{12} = \boxed{1 \frac{11}{12}}$$

$$\frac{5}{6} + \frac{1}{12} + \frac{1}{2} = \boxed{1 \frac{5}{12}}$$

$$\frac{3}{8} + \frac{3}{4} + \frac{7}{8} = \boxed{2}$$

LO: To add fractions
INDEPENDENT TASK ANSWERS

Annie solved this calculation.



The notebook shows the following calculation:

$$\frac{3}{4} + \frac{3}{16} = \frac{3+3}{4+16}$$
$$= \frac{6}{20}$$
$$= \frac{3}{10}$$

Can you spot and explain her mistake?

Annie is wrong because she has just added the numerators and the denominators. When adding fractions with different denominators you need to find a common denominator.

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(TTRS)

You have been sent login details, if you are
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Have a lovely weekend