



‘Confident, Independent, Forward-thinking’

Kents Hill Park Online Lesson

Recording of Online Lessons

Please be aware that all Online Lessons are recorded

Following all lessons the recording will be made available within Microsoft Teams to all staff and pupils for review and recap.



Kents Hill Park School

Participating in an online lesson using an online learning platform

I understand that an online lesson is an extension of the classroom and that I should conduct myself as I would in a classroom environment.

This includes:

- Taking part in an online lesson in an environment that is safe, quiet and free from distractions (preferably not a bedroom)
- Being on time for the virtual lesson.
- Remaining attentive during lesson.
- Interacting patiently and respectfully with your teachers and peers.
- Not recording each other's online interactions.
- Remaining for the full duration of the lesson.
- Switching off my video camera and microphone before joining a lesson and when requested to do so by your teacher.
- Finishing the session when your teacher instructs you to do so.



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1. Change the following to mixed number.

a) $\frac{13}{5}$

b) $\frac{15}{4}$

c) $\frac{13}{3}$

d) $\frac{11}{9}$

e) $\frac{12}{10}$

2. Change the following to improper fractions

a) $1\frac{2}{5}$

b) $2\frac{3}{7} = \frac{17}{7}$

c) $4\frac{1}{2} = \frac{9}{2}$

d) $3\frac{5}{6} = \frac{23}{6}$

e) $5\frac{2}{4}$

$\frac{11}{2} \leftarrow \frac{22}{4}$



1 Bella has some flowers. She gives $\frac{1}{5}$ of the flowers to Olivia and $\frac{7}{10}$ of the flowers to her grandma.

a) What fraction of the flowers has Bella given away?

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



$$\frac{1}{5} + \frac{7}{10} = \frac{\boxed{2}}{10} + \frac{7}{10} = \frac{\boxed{9}}{10}$$

Bella has given away $\frac{\boxed{9}}{\boxed{10}}$ of the flowers.

b) What fraction of the flowers does she have left?



Bella has $\frac{\boxed{1}}{\boxed{10}}$ of the flowers left.

2 Complete the following fraction calculations.

a) $\frac{3}{4} + \frac{3}{8} = \frac{\boxed{6}}{8} + \frac{\boxed{3}}{8} = \frac{\boxed{9}}{8} = \frac{\boxed{1}}{\boxed{1}} \frac{\boxed{1}}{8}$

b) $\frac{5}{q} - \frac{1}{3} = \frac{5}{q} - \frac{\boxed{3}}{q} = \frac{\boxed{2}}{q}$

$$1 = \frac{10}{10} - \frac{9}{10}$$

$$\frac{3}{4} = \frac{6}{8}$$

$$1 = \frac{8}{8}$$

$$\frac{1}{3} = \frac{3}{9}$$

3 Work out the following calculations. Show the answers in their simplest form.

a) $\frac{7}{12} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{3}$

$\frac{7}{12} - \frac{3}{12} = \frac{4}{12} = \frac{1}{3}$

c) $\frac{3}{4} + \frac{1}{20} = \frac{16}{20} + \frac{4}{20} = \frac{20}{20} = 1$

$\frac{15}{20} + \frac{1}{20} = \frac{16}{20} = \frac{4}{5}$

$\frac{3}{4} = \frac{15}{20}$

$\frac{8}{10} = \frac{4}{5}$

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

$\frac{3}{5} = \frac{15}{25}$

b) $\frac{3}{5} + \frac{9}{25} = \frac{24}{25}$

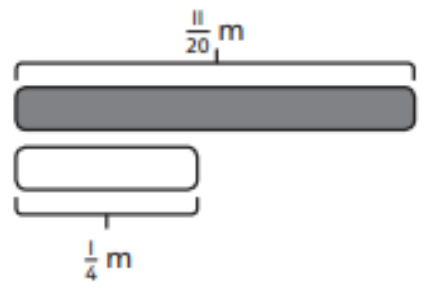
$\frac{15}{25} + \frac{9}{25} = \frac{24}{25}$

d) $\frac{17}{20} - \frac{1}{2} = \frac{7}{20}$

$\frac{17}{20} - \frac{10}{20} = \frac{7}{20}$

4 a) What is the total length of these strips?

$\frac{11}{20} + \frac{1}{4} = \frac{11}{20} + \frac{5}{20} = \frac{16}{20} = \frac{4}{5}$



$\frac{16}{20} = \frac{8}{10} = \frac{4}{5}$

$\frac{1}{4} = \frac{5}{20}$

b) How much shorter is the white strip than the grey strip, in metres?

$\frac{11}{20} - \frac{5}{20} = \frac{6}{20} = \frac{3}{10}$

- 5 What is the total of the following fractions? Explain the steps in your working.



A large empty rectangular box with a pencil icon in the top-left corner, intended for the student's working out.

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

x4

- 6 Work out the missing fractions.

a) $\frac{1}{3} + \frac{\square}{\square} = \frac{11}{12}$

b) $\frac{1}{4} - \frac{1}{12} + \frac{\square}{\square} = \frac{9}{24}$



$\frac{4}{12} + \frac{7}{12} = \frac{11}{12}$

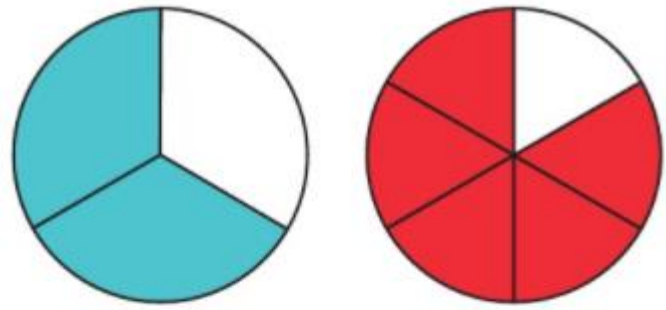
$\frac{6}{24} - \frac{2}{24} + \frac{5}{24} = \frac{9}{24}$

$$\frac{1}{4} = \frac{6}{24}$$

x6

$$\frac{1}{12} = \frac{2}{24}$$

1 Reena spent $\frac{2}{3}$ of an hour watching TV.
 She spent $\frac{5}{6}$ of an hour on the computer.
 What is the total amount of time Reena spent watching TV and on the computer?

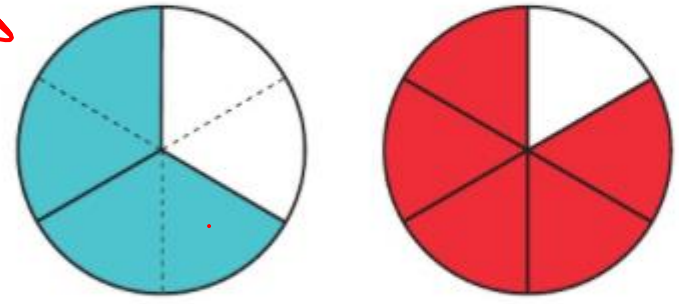


$$\frac{2}{3} = \frac{4}{6}$$

$$\frac{4}{6} + \frac{5}{6} = \frac{9}{6}$$

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

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

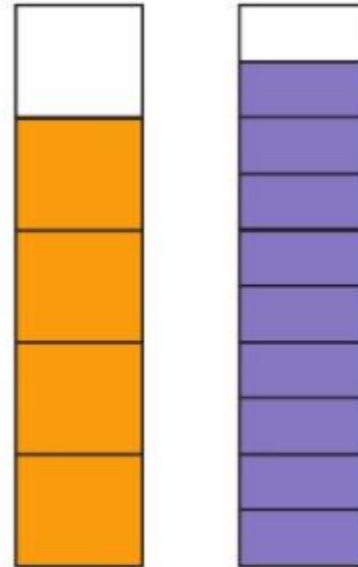


$$\frac{3}{6} = \frac{1}{2}$$

~~$\frac{11}{6}$~~
 ~~$\frac{12}{6}$~~

Reena spent $1 \frac{1}{2}$ hours in total watching TV and on the computer.

- 2 Amelia drinks $\frac{4}{5}$ of a glass of water.
Later she drinks $\frac{9}{10}$ of another glass of water.
How many glasses of water does she drink in total?



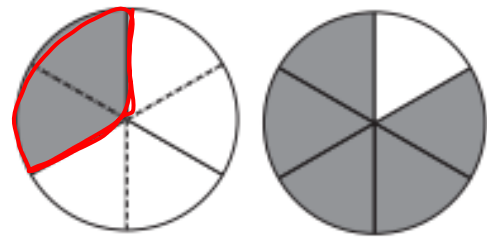
$$\frac{4}{5} \times 2 = \frac{8}{10}$$
$$\frac{8}{10} + \frac{9}{10} = \frac{17}{10} = 1\frac{7}{10}$$

1 a) Work out $\frac{5}{6} + \frac{1}{3}$.

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

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

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



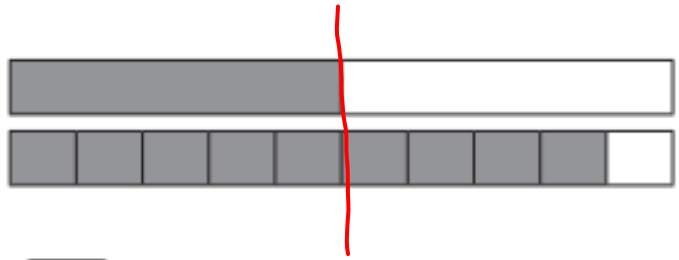
$$\frac{5}{6} + \frac{2}{6}$$

b) Work out $\frac{1}{2} + \frac{9}{10}$.

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

$$\frac{1}{2} + \frac{9}{10} = \frac{5}{10} + \frac{9}{10}$$

$$= \frac{14}{10} = 1 \frac{2}{5}$$



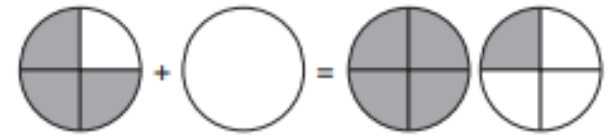
$$\frac{1}{2} = \frac{5}{10}$$

$$\frac{14}{10} = 1 \frac{4}{10}$$

$$1 \frac{4}{10} = 1 \frac{2}{5}$$

2 Danny adds two fractions.

What is the missing fraction?



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

$$\frac{1}{2}$$



3 Use the diagrams to help you work out the calculations.

a) $\frac{3}{8} + \frac{3}{4}$



$\frac{3}{4} = \frac{\square}{8}$



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

b) $\frac{5}{12} + \frac{2}{3}$



4 What is the total amount of juice in the two bottles, in litres?



5 Work out these fraction additions.

a) $\frac{7}{10} + \frac{11}{20}$



b) $\frac{11}{15} + \frac{4}{5}$



6 Work out the missing fractions.



a) $\frac{1}{2} + \frac{\square}{\square} = \frac{17}{12}$

d) $\frac{1}{2} + \frac{\square}{\square} = 1\frac{1}{12}$

b) $\frac{2}{3} + \frac{\square}{\square} = \frac{17}{12}$

e) $\frac{2}{3} + \frac{\square}{\square} = 1\frac{1}{12}$

c) $\frac{5}{6} + \frac{\square}{\square} = \frac{17}{12}$

f) $\frac{\square}{\square} + \frac{5}{6} = 1\frac{1}{12}$

CHALLENGE

