Corbett maths

Adding Fractions: Same Denominators
Video 132 on www.corbettmaths.com

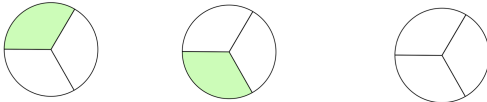Examples

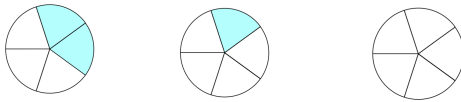Workout

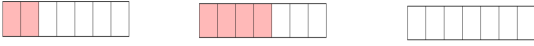Click here

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Question 1: Work out the following additions.
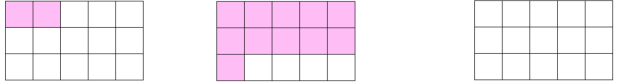You may use the shapes to help.

(a)

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

(b)

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

(c)

$\frac{2}{7}$ + $\frac{4}{7}$ =

(d)

$\frac{2}{15}$ + $\frac{11}{15}$ =

Question 2: Work out the following additions

(a) $\frac{1}{5} + \frac{1}{5}$

(b) $\frac{3}{11} + \frac{2}{11}$

(c) $\frac{1}{9} + \frac{7}{9}$

(d) $\frac{3}{7} + \frac{3}{7}$

(e) $\frac{6}{11} + \frac{2}{11}$

(f) $\frac{7}{13} + \frac{4}{13}$

(g) $\frac{3}{5} + \frac{1}{5}$

(h) $\frac{10}{21} + \frac{10}{21}$

Question 3: Work out the following subtractions

(a) $\frac{3}{5} - \frac{1}{5}$

(b) $\frac{6}{7} - \frac{2}{7}$

(c) $\frac{4}{5} - \frac{3}{5}$

(d) $\frac{7}{13} - \frac{1}{13}$

(e) $\frac{9}{11} - \frac{6}{11}$

(f) $\frac{16}{21} - \frac{8}{21}$

(g) $\frac{5}{6} - \frac{5}{6}$

(h) $\frac{16}{25} - \frac{9}{25}$

Question 4: Work out the following additions and subtractions
Simplify your answers if possible

(a) $\frac{1}{4} + \frac{1}{4}$

(b) $\frac{5}{6} - \frac{1}{6}$

(c) $\frac{3}{8} + \frac{3}{8}$

(d) $\frac{7}{10} - \frac{3}{10}$

(e) $\dfrac{2}{9} + \dfrac{4}{9}$ (f) $\dfrac{3}{20} + \dfrac{7}{20}$ (g) $\dfrac{1}{12} + \dfrac{5}{12}$ (h) $\dfrac{17}{30} - \dfrac{7}{30}$

(i) $\dfrac{19}{20} - \dfrac{7}{20}$ (j) $\dfrac{11}{18} + \dfrac{5}{18}$ (k) $\dfrac{9}{16} - \dfrac{7}{16}$ (l) $\dfrac{19}{80} + \dfrac{31}{80}$

Question 5: Work out the following additions.

(a) $\dfrac{2}{3} + \dfrac{2}{3}$ (b) $\dfrac{4}{5} + \dfrac{3}{5}$ (c) $\dfrac{7}{10} + \dfrac{4}{10}$ (d) $\dfrac{3}{8} + \dfrac{5}{8}$

(e) $\dfrac{9}{11} + \dfrac{10}{11}$ (f) $\dfrac{9}{20} + \dfrac{13}{20}$ (g) $\dfrac{8}{13} + \dfrac{6}{13}$ (h) $\dfrac{41}{50} + \dfrac{19}{50}$

Apply

Question 1: On Monday, James ate $\dfrac{1}{8}$ of a cake.

On Tuesday, he ate $\dfrac{3}{8}$ of the same cake.

In total, how much of the cake has James eaten?

Question 2: At a rugby match, $\dfrac{3}{5}$ of the crowd are male.

What fraction of the crowd are female?

Question 3: In one season, a netball team won $\dfrac{4}{7}$ of their matches.

They drew $\dfrac{2}{7}$ of their matches.

What fraction of the matches did they lose?

Question 4: In a school, pupils study French, German or Spanish.

$\dfrac{1}{9}$ of the pupils study Spanish.
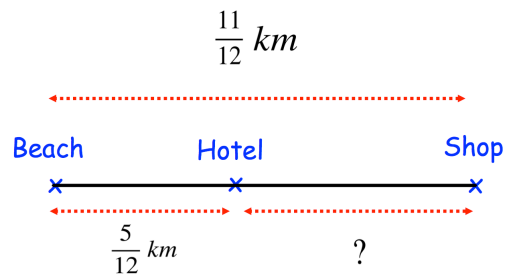
Half of the remaining pupils study French.

What fraction of the pupils study French?

Question 5: Find the distance from the hotel to the shop.

$\frac{11}{12} \, km$

Beach   Hotel   Shop

$\frac{5}{12} \, km$?

Question 6: A wooden rod is $\frac{4}{5} \, m$ long.

Find the total length of 4 wooden rods.

Question 7: Three fractions have been added together and the answer is $\frac{17}{20}$

Write down three fractions that may have been added together.

Question 8: James adds together two fractions.
Both fractions are the same.

The answer is $1\frac{5}{9}$

Find the two fractions.

Question 9: Will has completed his homework.
Can you spot any mistakes?

Question 1
Work out

$\frac{11}{15} - \frac{2}{15}$

Simplify your answer.

$\frac{13}{15}$

Question 2

There are red counters, blue counters and green counters in a bag.
⅝ of the counters are red.
⅛ of the counters are blue.

What fraction of the counters are green?

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

Answers

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