Corbett maths

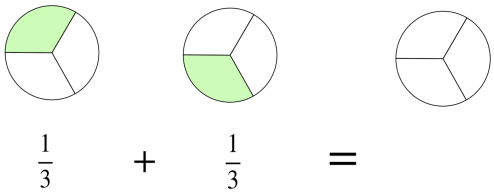
Adding Fractions: Same Denominators

Video 132 on www.corbettmaths.com

Workout

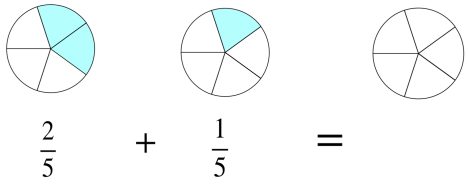
Question 1: Work out the following additions.
You may use the shapes to help.

(a)



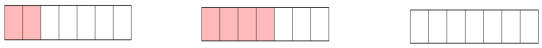
$\frac{1}{3} + \frac{1}{3} =$

(b)



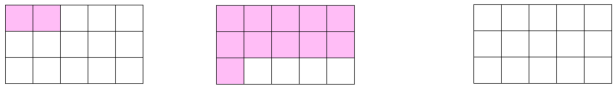
$\frac{2}{5} + \frac{1}{5} =$

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

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

Question 5: Work out the following additions.

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

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

Apply

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

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

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

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

What fraction of the crowd are female?

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

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

What fraction of the matches did they lose?

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

$\frac{1}{9}$ of the pupils study Spanish.

Half of the remaining pupils study French.

What fraction of the pupils study French?

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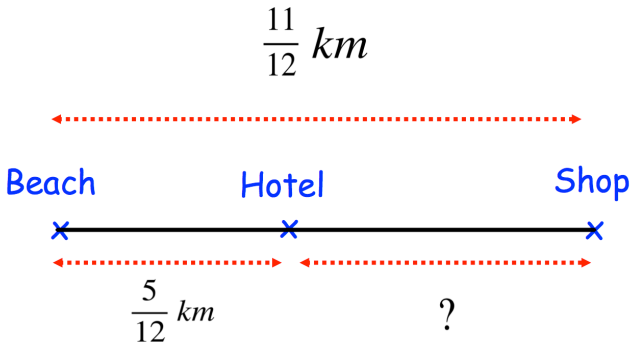
Question 5: Find the distance from the hotel to the shop.



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?

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