Corbett maths
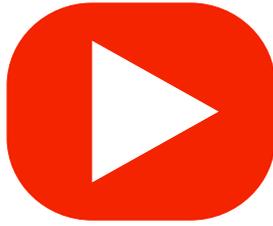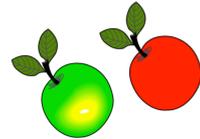
Examples

Workout

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Question 1:   The ratio of red apples to green apples in a basket is 1:2

(a) What fraction of the apples in the basket are red?
(b) What fraction of the apples in the basket are green?

Question 2:   The ratio of blue pens to black pens in a box is 3:5

(a) What fraction of the pens are black?
(b) What fraction of the pens are blue?

Question 3:   A farmer keeps cows and pigs on his farm.
The ratio of cows to pigs on the farm is 2:3

(a) What percentage of the animals on the farm are cows?
(b) What percentage of the animals on the farm are pigs?

Question 4:   Olivia has blue, pink and orange counters in a bag.
The ratio of blue to pink to orange counters is 4:5:2

(a) What fraction of the counters are blue?
(b) What fraction of the counters are orange?

Question 5:   Chris makes a drink by mixing lemonade and orange juice in the ratio 13:7

(a) What percentage of the drink is lemonade?
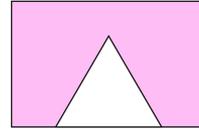(b) What percentage of the drink is orange juice?

Question 6:   There are white, red and yellow counters in a box.
The number of white counters, the number of red counters and the number
of yellow counters are in the ratio 2:7:16

What percentage of the counters in the box are red?

Question 7:   Cards in a pack are either orange or purple.
80% of the cards are orange.
Write the ratio of orange cards to purple cards.

Question 8:   The counters in a bag are red or yellow.
30% of the counters in the bag are red.
Write the ratio of yellow counters to red counters.

Question 9:   Chris designs a flag.
20% of the flag is white and the rest is pink.
What is the ratio of white to pink?

Question 10: 14% of the students in a class are left handed.
Write down the ratio of left handed to right handed students.

Question 11: $\dfrac{1}{3}$ of the beads in a bag are white.

The rest of the beads are grey.

(a)   Write down the ratio of white beads to grey beads.
(b)   Write down the ratio of grey beads to white beads.

Question 12: An American football team won a sixth of their matches.
They lost the rest.
Work out the ratio   matches won : matches lost

Question 13: $\dfrac{3}{4}$ of the apples in a bag are red.

Write down the ratio of red apples to green apples.

Question 14: $\dfrac{7}{15}$ of the buses arriving in a town are late.

Write down the ratio of on time buses to late buses.

Apply

Question 1:   Bethany and Summer are waitresses.
They share the tips in the ratio of the hours they have worked.
Bethany worked from 11am until 5pm.
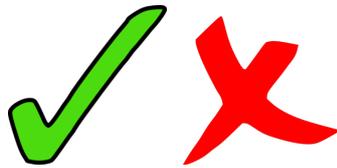Summer worked from 1pm until 9pm

What fraction of the tips does Bethany keep?

Question 2:   Oscar and Theo collect coins and stamps.
              Altogether they have the same number of coins as stamps.

              The ratio of coins Oscar has to coins Theo has is 3:7
              The ratio of stamps Oscar has to stamps Theo has is 1:4

              Show Theo has more stamps than coins.

Answers

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