

Examples



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Workout

Question 1: Work out each of the following

- (a) $\frac{1}{2}$ of 10 (b) $\frac{1}{3}$ of 18 (c) $\frac{1}{5}$ of 20 (d) $\frac{1}{4}$ of 24
(e) $\frac{1}{9}$ of 27 (f) $\frac{1}{10}$ of 160 (g) $\frac{1}{8}$ of 80 (h) $\frac{1}{7}$ of 49
(i) $\frac{1}{2}$ of 9 (j) $\frac{1}{5}$ of 65 (k) $\frac{1}{12}$ of 72 (l) $\frac{1}{11}$ of 132

Question 2: Work out each of the following

- (a) $\frac{2}{3}$ of 15 (b) $\frac{7}{10}$ of 20 (c) $\frac{2}{5}$ of 30 (d) $\frac{3}{4}$ of 32
(e) $\frac{3}{5}$ of 45 (f) $\frac{2}{7}$ of 28 (g) $\frac{3}{8}$ of 88 (h) $\frac{3}{10}$ of 120
(i) $\frac{5}{9}$ of 63 (j) $\frac{13}{20}$ of 60 (k) $\frac{2}{7}$ of 91 (l) $\frac{4}{15}$ of 120

Question 3: Work out each of the following.
Include suitable units.

- (a) $\frac{1}{3}$ of £21 (b) $\frac{3}{4}$ of 100kg (c) $\frac{2}{3}$ of 27cm (d) $\frac{7}{8}$ of 32 seconds
(e) $\frac{2}{5}$ of 90 miles (f) $\frac{5}{6}$ of £150 (g) $\frac{5}{12}$ of 240ml (h) $\frac{9}{10}$ of 310 students
(i) $\frac{1}{8}$ of a day (j) $\frac{4}{5}$ of 1km (k) $\frac{3}{7}$ of 2 weeks (l) $\frac{1}{500}$ of 1m

Question 4: Work out each of the following.

(a) $\frac{3}{10}$ of 32 miles (b) $\frac{2}{5}$ of 9kg (c) $\frac{1}{3}$ of 8 litres (d) $\frac{3}{5}$ of £7

(e) $\frac{1}{8}$ of 50cm (f) $\frac{1}{5}$ of 4931km (g) $\frac{3}{4}$ of £57 (h) $\frac{2}{9}$ of 211km

Question 5: Work out the largest of each of the following pairs.

(a) $\frac{1}{3}$ of 21 *or* $\frac{1}{2}$ of 12 (b) $\frac{1}{6}$ of 30 *or* $\frac{2}{3}$ of 9 (c) $\frac{2}{5}$ of 65 *or* $\frac{3}{4}$ of 32

(d) $\frac{1}{5}$ of 2m *or* $\frac{3}{4}$ of 60cm (e) $\frac{3}{8}$ of a day *or* $\frac{1}{10}$ of 85 hours

(f) $\frac{7}{15}$ of 480 *or* $\frac{2}{3}$ of 453 (g) $\frac{3}{10}$ of 395 *or* $\frac{2}{7}$ of 420

Apply

Question 1: James has 20 sweets.

$\frac{3}{4}$ of the sweets are red.

How many sweets are red?



Question 2: In a class, there are 24 students.

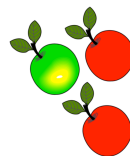
$\frac{1}{8}$ of the students wear glasses.

How many students wear glasses?

Question 3: There are 40 apples in a crate.

$\frac{3}{5}$ of the apples are bad.

How many good apples are there?



Fraction of an Amount

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Question 4: On Wednesday, James slept for $\frac{3}{8}$ of the day

- (a) How many hours did James spend sleeping?
- (b) For how many hours was James awake?
- (c) What fraction of the day was James awake?



Question 5: Declan won £6000 in a competition.

He invests $\frac{2}{5}$ of the money.

How much money did Declan invest?

Question 6: Katie has £1200.

She gives $\frac{1}{3}$ of the money to her sister.

Then Katie gives $\frac{1}{4}$ of the remaining money to her brother.

How much money does Katie have left?

Question 7: The attendance at a Sheffield United match is 15,291

$\frac{2}{9}$ of the crowd are children.

How many adults attended the match?



Question 8: There are 194 students in a primary school.

Mr Wallace says that exactly $\frac{1}{4}$ of the students are left handed.

Explain why Mr Wallace must be wrong.

Question 9: Connor has saved £450.

He spends $\frac{1}{5}$ of the £450 on a new tyre for his car.

Connor spends $\frac{2}{3}$ of the £450 on a new guitar.

What fraction of the £450 does Connor have left?

Fraction of an Amount

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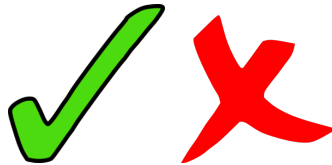
Question 10: The size of a jar of coffee is increased by one-fifth.
The new size is later reduced by one-fifth.
Is the new jar smaller, the same size or larger than the original?
Explain how you worked out your answer.

Question 11: A company earns £3,178,784 in 2016.

$\frac{4}{7}$ of the income is spent on salaries.

How much money does the company spend on salaries in 2016?

Answers



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