

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.

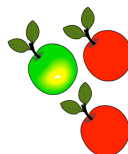
$\frac{1}{8}$  of the students wear glasses.

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

Video 137 on [www.corbettmaths.com](http://www.corbettmaths.com)

- 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

Video 137 on [www.corbettmaths.com](http://www.corbettmaths.com)

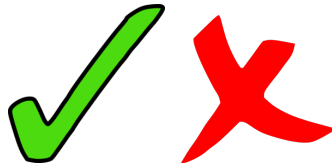
Question 10: The size of a jar of coffee is increased by one-fifth.  
The new size is later reduced by one-fifth.  
Is the new jar smaller, the same size or larger than the original?  
Explain how you worked out your answer.

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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