

# Calculate fractions, decimals and percentages of an amount using calculator methods



1 Rosie and Amir are using a calculator to find 17% of 9,000  
Here's what they typed into their calculators.

Rosie

0

.

1

7

×

9

0

0

0

=

Amir

1

7

%

×

9

0

0

0

=

Use your calculator to check with a partner that both methods give the same answer.

Which method do you prefer?



2 Use a calculator to work out the percentages.

- a) 43% of 4,000 =
- b) 26% of £3,000 =
- c) 92% of 680 kg =
- d) 30% of 820 =
- e) 35% of 820 =
- f) 35.2% of 820 =

3 Complete the table.

Question	Estimate	Calculation and answer
53% of 870	50% of 900 = $900 \div 2 =$ <input type="text"/>	$0.53 \times 870 =$ <input type="text"/>
88% of 302		
33% of 880		

4 Whitney, Teddy and Annie are using their calculators to find  $\frac{4}{7}$  of 980  
Here's what they typed in their calculators.

Whitney

4

↓

7

→

×

9

8

0

=

Teddy

4

÷

7

×

9

8

0

=

Annie

9

8

0

÷

7

=

ANS

×

4

=

Use your calculator to check with a partner that all three methods give the same answer.

Whose method do you prefer? \_\_\_\_\_

Why?

5 Use a calculator to work out the fractions.

- a)  $\frac{3}{5}$  of 850 =
- b)  $\frac{7}{8}$  of 12,000 =
- c)  $\frac{2}{3}$  of 513 =
- d)  $\frac{5}{4}$  of 764 =
- e)  $\frac{11}{25}$  of 1,650 =
- f)  $\frac{25}{11}$  of 6,743 =

6 Nijah works out 23% of £120 on her calculator. She writes £27.6  
Her teacher marks the answer wrong. Why?



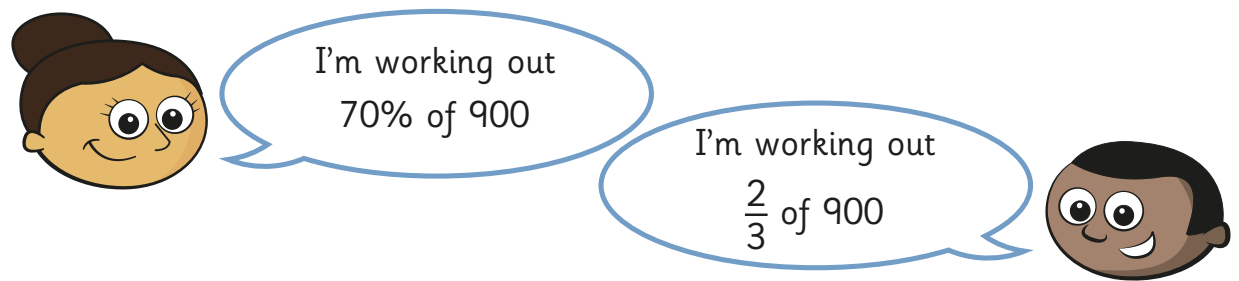
7 a) Round the numbers to one significant figure.

6,300	6,350	6,305	6,300.5
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
23	23.5	0.23	0.235
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

b) Complete the table.

Question	Estimate	Calculation and answer
$23\% \times 6,305$		
$0.235 \times 6,350$		
37.6% of 41		
$0.088 \times 909$		

c) Dora and Mo are estimating 68% of 900



Explain why both methods will give a good estimate of 68% of 900

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Will their estimates be greater or smaller than the actual answer?

	greater	smaller
Dora's estimate	<input type="checkbox"/>	<input type="checkbox"/>
Mo's estimate	<input type="checkbox"/>	<input type="checkbox"/>

8 a) Write the percentages as decimals.

13%	1.3%	0.13%	1.13%
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

b) Mr Hall invests £3,500 in a bank account.

After one year, the bank pays him 1.3% interest on his investment.  
Work out how much interest Mr Hall receives.

c) Miss Lee gets a loan of £5,000 from a bank.

At the end of the year, she is charged 2.75% interest on her loan.  
How much does she now owe the bank altogether?

9 Write  $>$ ,  $<$  or  $=$  to complete the statements.

a) 63% of 12,000   $0.17 \times 58,000$

b) 3.8% of 2 million   $\frac{5}{8}$  of 90,000

c) 85% of 70 million  0.8% of 7 billion

d)  $\frac{2}{3}$  of 91,521   $0.43 \times 150,000$

e) 5% of 3,000<sup>2</sup>   $\frac{9}{20}$  of 1 million