

NON CALCULATOR PERCENTAGES

Exercise 1

1) Work out:

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|-------------------------------|---------------------------------|-----------------------------|
| a) 50% of £84 | b) 25% of £1000 | c) 20% of £80 |
| d) 10% of £40 | e) 20% of £6400 | f) $33\frac{1}{3}\%$ of £81 |
| g) 50% of £9 | h) 10% of £52 | i) 10% of £63 |
| j) 75% of £48 | k) 75% of £92 | l) $66\frac{2}{3}\%$ of £45 |
| m) $33\frac{1}{3}\%$ of £7.20 | n) $66\frac{2}{3}\%$ of £153.60 | o) 75% of £61 |
| p) 10% of £15.50 | q) 20% of £13.20 | r) 10% of 20p |

- 2) A turtle laid 132 eggs. 50% of them were eaten by birds.
How many were eaten by birds?
- 3) 20% of the pupils in a school are left handed.
If there are 1100 pupils, how many of them are left handed?
- 4) 25% of the items sold at a car boot sale were CDs.
How many CDs were sold if there were 5400 items?
- 5) In Glasgow in 2009, it was sunny for 20% of the time.
If there are 365 days in a year, how many days was it sunny for?

Exercise 2

1) Work out:

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|-------------------------------|---------------------------------|-----------------------------|
| a) 50% of £3.20 | b) 25% of £852 | c) 20% of £8 |
| d) 10% of £60 | e) 10% of 43g | f) $33\frac{1}{3}\%$ of £39 |
| g) 25% of £1260 | h) 10% of 52cm | i) 20% of £7.50 |
| j) 75% of £4.80 | k) 60% of £12 000 | l) 80% of £550 |
| m) $33\frac{1}{3}\%$ of £7.20 | n) $66\frac{2}{3}\%$ of £153.60 | o) 75% of £61 |
| p) 10% of £17.50 | q) 20% of £15.20 | r) 10% of 70p |

- s) 50% of $\text{£} \frac{1}{2}$ million t) 40% of $\text{£}390$ u) 70% of 60p
v) 30% of 1750kg w) 90% of 50p x) 60% of $\text{£}75$
y) 80% of $\text{£}21$ z) 70% of $\text{£}8$

2) From 1(d) you will see that 10% of $\text{£}60 = \text{£}6$.
Use this result to write down:

- a) 30% b) 5% c) 15%

3) For $\text{£}80$ calculate:

- a) 10% b) 30% c) 5% d) 15%

4) For $\text{£}40$ calculate:

- a) 10% b) 30% c) 5% d) 15%

5) State 2 different ways of calculating 15% without a calculator.

6) $33\frac{1}{3}\%$ of the passengers in a train containing 267 passengers continue on the train until its destination.

How many passengers:

- a) continue to the final stop b) get out before the final stop?

7) 75% of the people in a room are over the age of 30. If there are 752 people in a room, how many of them are:

- a) over the age of 30 b) under the age of 30?

8) On a cruise ship, 40% of the passengers are ladies, 35% are men, 15% are girls and the rest are boys. There are 2400 passengers.

How many are

- a) ladies b) men c) girls d) boys?

Exercise 3

1) Work out:

- | | | |
|-----------------|-----------------|-----------------|
| a) 30% of £450 | b) 70% of 240kg | c) 90% of £8 |
| d) 40% of 640m | e) 80% of £75 | f) 90% of £62 |
| g) 35% of 600kg | h) 55% of £800 | i) 85% of £90 |
| j) 65% of £540 | k) 60% of £862 | l) 80% of £48 |
| m) 15% of £16 | n) 15% of £64 | o) 15% of £8·20 |
| p) 8% of £340 | q) 6% of £850kg | r) 9% of £250 |
| s) 4% of 750ml | t) 3% of 500m | u) 7% of £8 |
| v) 2% of 480kg | w) 1% of £5 | x) 32% of £70 |
| y) 36% of £20 | z) 53% of £86 | |

2) Heidi is offered 11% of £350 or 45% of £80.
Which offer should Heidi take?

3) Goats' cheese contains 15% fat.
How much fat is there in a pack which contains:

- a) 240g b) 460g c) 0·86kg d) 0·38kg

4) Of the 3 cakes below, which one, *per helping*, is better for you in terms of fat content? (assume the cupcake is 1 helping)



500g chocolate cake
18% Fat



250g carrot cake
8% Fat



50g cupcake
12% Fat