

Friday (hard) ANSWERS

$$82\% \times 930 = 762.6$$

$$69\% \times 750 = 517.5$$

Cut out and stick in books before answering.



Would you rather have 10% of £5 or 20% of £3.00? Explain your answer. 10% of £5 = 50p but 20% of £3 = 60p so I'd rather have 20% of £3 as it is a greater amount.



Nike Air Huarache trainers are 35% off in the sale. They are now £58.50. How much were they originally?

£58.50 is 65% of the price.

$$10\% = \text{£}9 \quad (58.50 \div 6.5)$$

$$5\% = \text{£}4.50$$

$$9 + 9 + 9 + 4.5 = 31.5$$

$$58.50 + 31.50 = 90$$

The trainers were £90 originally.



20% of Megan's number is 64

What is 50% of Megan's number?

$$10\% = 32$$

$$32 \times 5 = 160$$

160 is 50% of Megan's number.



200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.

How many **more** children went to Scotland than went to Wales?

20 children went to Wales. 50 children went to Scotland so 30 more children went to Scotland.



Would you rather sit in a traffic jam for 33% of 2 hours or 44% of 1 hour 40 minutes? Explain your answer.

33% of 2 hours = 39.6 mins but 44% of 1 hour 40 mins is 44 mins so I'd rather sit in traffic for 33% of 2 hours because it is a shorter amount of time.



If you know 40% of a number, explain how you could work out the original number.

You can divide the number by 4 ($40 \div 4 = 10$) to find 10%. You can then multiply this by 10 to find the original number.



These shoes are 35% off in the sale. They are now £32. How much were they originally?

Sarah says, "For this question, the best way is to find 1% by dividing 32 by 35 then multiply by 100." Do you agree? Explain your answer.

Consult with a friend. Do they agree with your response?



250 000 people visited a theme park in one year.

15% of the people visited in April and

40% of the people visited in August.

How many people visited the park in the rest of the year?

$$40 + 15 = 55\%$$

$$55\% \text{ of } 250\,000 = 137\,500$$

$$250\,000 - 137\,500 = 112\,500$$

112500 people visited the park the rest of the year.



Which of these is the odd one out?

40% of 900

90% of 400

60% of 850

25% of 1440

Explain your answer.

60% of 850 = 510 the rest all equal 360.



20% of the children in a sports club play tennis.



25% of the children who play tennis **also** play rounders.



There are 8 children in the club who play **both** tennis and rounders.

How many children are there in the sports club **altogether**?

25% must = 8

The 20% of children playing tennis is 32 because $8 \times 4 = 32$.

20% = 32

20% = $\frac{1}{5}$

$32 \times 5 = 160$

160 children are at the sports club.



Pet shop



1. Jim bought a cat and dog for £60 each.
Later he sold them.
He made a profit of 20% on the dog.
He made a loss of 20% on the cat.
How much did he get altogether when he sold the cat and dog?
2. Jim bought another cat and dog.
He sold them for £60 each.
He made a profit of 20% on the dog.
He made a loss of 20% on the cat.
Did he make a profit or loss on the whole deal?

1. 20% of 60 = 12

He got £72 for the dog and £48 for the cat so he received £120

2. He bought the dog for £50 and the cat for £75 which is £125 in total.

He made a loss of £5.