

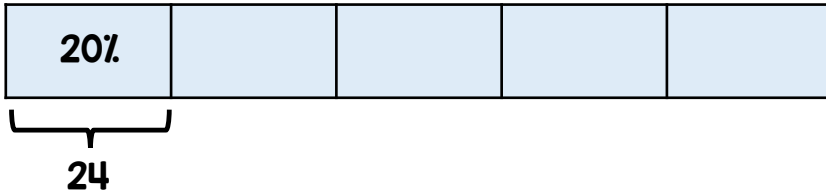
Summer Term Maths Year 10

Calculating reverse percentage problems

Day 4

Week 6

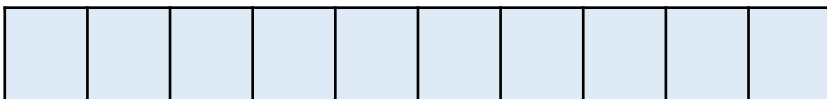
1 20% of a number is 24



Work out.

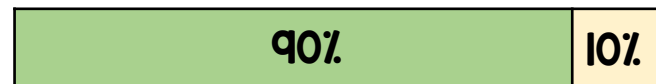
- (a) 10% of this number.
- (b) 40% of this number.
- (c) 5% of this number.
- (d) 35% of this number.
- (e) What else can you find out?

2 If 60% of a number is 180, write 4 other percentages of this number. Use a bar to help you.



- 3**
- (a) If 10% of a number is 14.5, find 100%.
 - (b) If 25% of a number is 320, find 100%.
 - (c) If 8% of a number is 22, find 100%.
 - (d) If 30% of a number is 12, find 100%.
 - (e) Why are questions (c) and (d) more challenging?

4 Dexter answers 90% of the questions on a test correctly. He answers 54 questions correctly. How many questions are on the test?



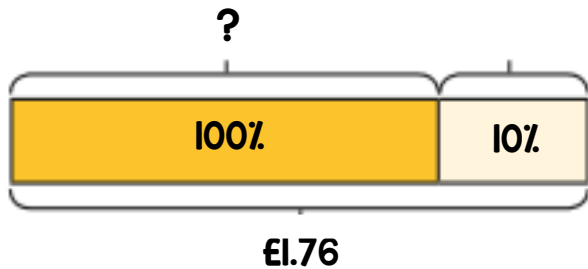
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- 5** A shop increases the price of its milk by 10%. It now costs £1.76
How much did it cost before?



- 6** A shop has reduced all dresses by 30% and all accessories by 15%.

- (a) A dress now costs £49. How much did it cost before the sale?
(b) A bag now cost £34.00. How much did they cost before the sale?

- 7** Annie and Tommy are solving a problem.

A special pack of CobHob biscuits weighs 300 g and contains 20% extra free. How much does a normal pack of CobHob biscuits weigh?

Annie's working

20% extra means
the normal pack is
80% of 300 g.
 $0.8 \times 300 = 240$ g

Tommy's working

20% extra means
120% is 300 g.
So 10% is $300 \div 12 = 25$,
so 100% is $25 \times 10 = 250$ g

Who do you agree with?
Explain why.