

# Solving percentage word problems (using bar modelling)

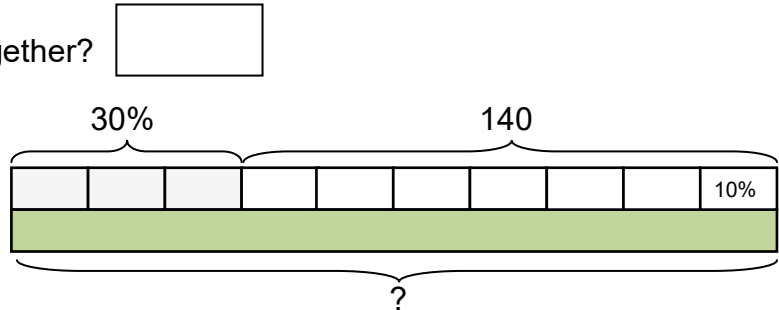
Maths worksheets from [urbrainy.com](http://urbrainy.com)



Use the bar models to help you work out what to do to find the answers to these percentage word problems.

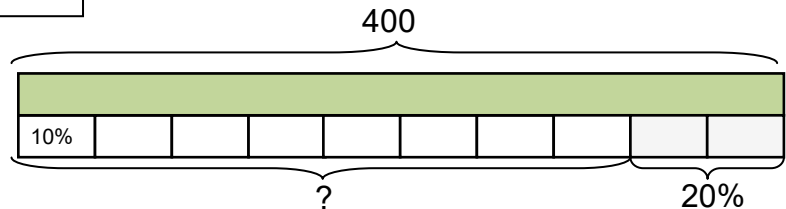
1. Kara spilt 30% of a box of pins. She had 140 pins left in the box.

How many pins were there altogether?



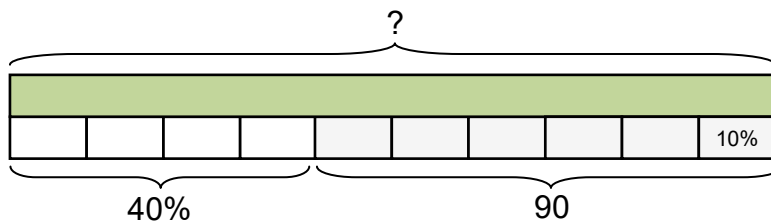
2. Kim planted 400 lettuce seeds. 20% of the seeds did not grow.

How many seeds did grow?



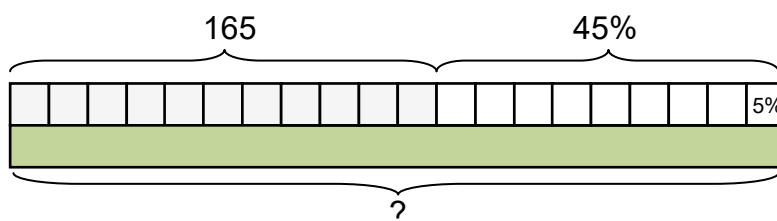
3. 40% of people bought their cinema tickets on line. The other 90 paid at the door.

How many people went to the cinema altogether?



4. Tom put 165 new £1 coins in a jar. Tara put another 45% in to fill the jar.

How many £1 coins are there in the jar altogether?



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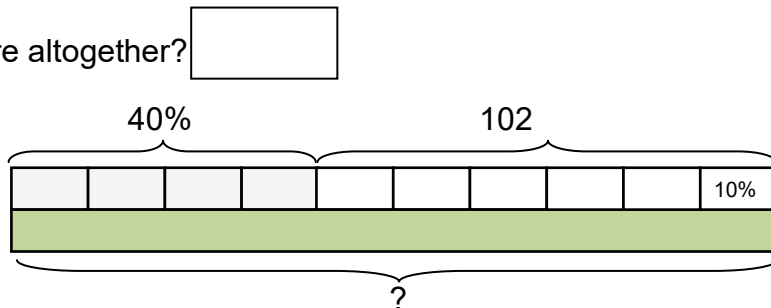
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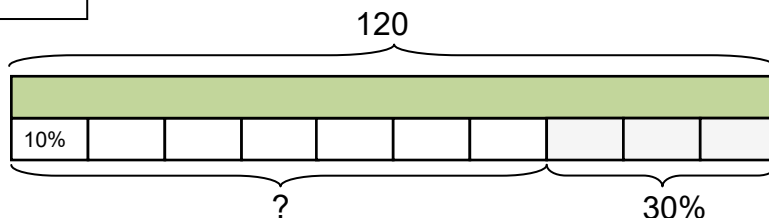
1. 40% of the deckchairs on the beach were being used. 102 deckchairs were empty.

How many deckchairs were there altogether?



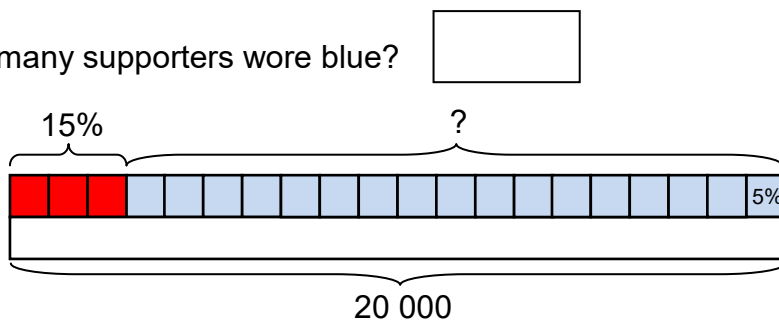
2. Tom was running a marathon in 120 days time. During that time he rested on 30% of days and trained on the others.

How many days did he train?



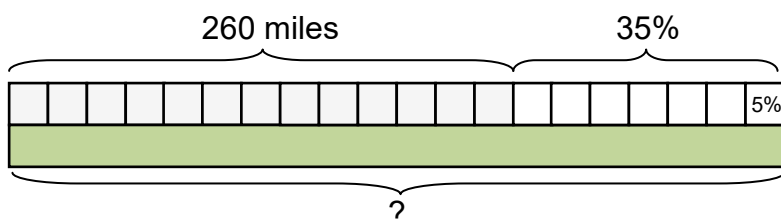
3. 20 000 people went to a football match. 15% of the supporters wore red. All the rest of the supporters wore blue.

How many supporters wore blue?



4. Harry and Anne drove to Edinburgh. Harry drove 35% of the way. Anne drove 260 miles.

How far was it to Edinburgh altogether?



Name: \_\_\_\_\_

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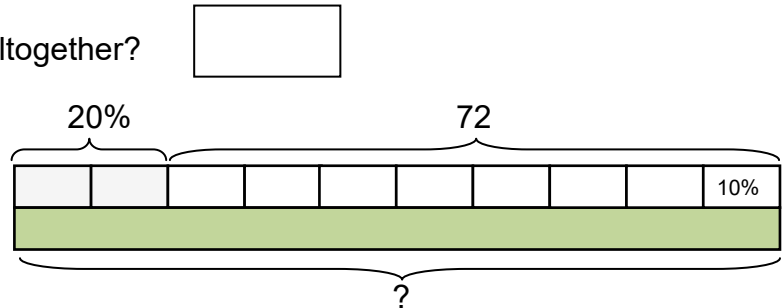
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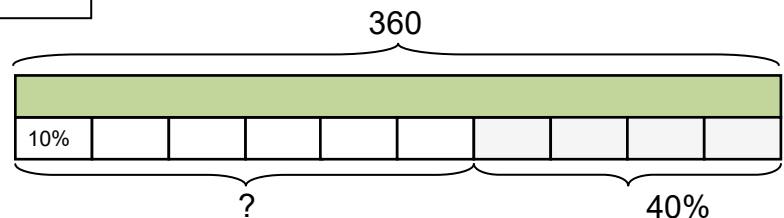
1. 20% of houses in a street had cars in the drive. 72 houses did not have cars.

How many houses were there altogether?



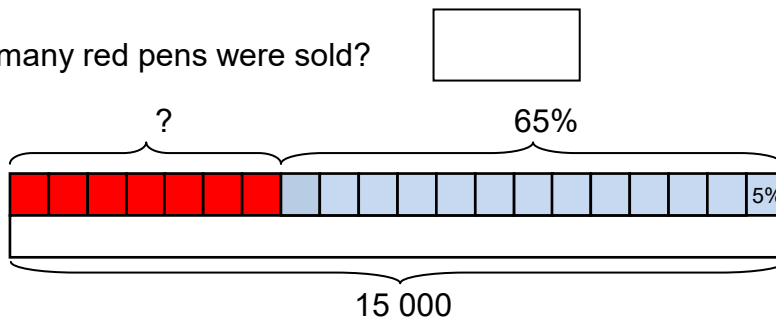
2. Sally and Sam sent 360 cards between them. Sally sent 40% of the total number of cards.

How many did Sam send?



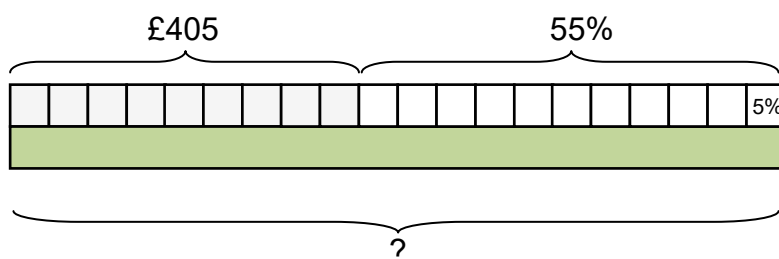
3. A shop sold a total of 15 000 red and blue pens. 65% of the sales were for blue pens.

How many red pens were sold?



4. Ray and Rob went on a charity run. Ray raised £405. Rob raised the other 55%.

How much did they raise altogether?





Answers

Page 1

1. 200      2. 320      3. 150      4. 300

Page 2

1. 170      2. 84 days      3. 17 000      4. 400 miles

Page 3

1. 90      2. 216      3. 5 250      4. £900