

Instructions

For each question, mark the boxes and write the answer on your answer sheet.
Write only one number per box and mark only one digit in each column.

Example i

What is the difference between 69 and 111?

The correct answer is 42. The answer 42 has been completed for you on the answer sheet.



You have 10 minutes for this section.

Do not turn the page until you are told to do so.



Instructions

For each question, mark the boxes and write the answer on your answer sheet.

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- 1** There is a total of 72 pens in 9 identical packs of pens.

How many pens are there in 3 packs?

- 2** Samantha has some marbles.

The marbles can be divided exactly into piles of 3, 4 or 5.

What is the smallest number of marbles Samantha could have?

- 3** There are 15 yellow balls, 10 blue balls and 8 green balls mixed up in a bag.

Paul takes the balls from the bag one by one at random.

He wants to take out at least 2 balls of each colour.

What is the least number of balls that Paul needs to take from the bag to guarantee doing this?

- 4** What is the difference between 2^3 and 3^3 ?

Go to the next page.



- 5** Ted wishes to purchase as many books as possible from a visiting book club.
The books cost £1.75 each.

How many books can Ted purchase with £50?

- 6** There are 120 students in Year 6 at a school.
There are 18 more boys than girls.

How many girls are in Year 6?

- 7** I think of a number N .
I subtract 3 from N and then divide the answer by 3.
The answer is 12.

What is the number N that I first thought of?

- 8** In a survey, 20% of the people surveyed said they ate cereal for breakfast.

If 18 people said they ate cereal, how many people were surveyed in total?

Go to the next page.



- 9** Lee went for a walk.
He started walking at 9:46a.m. and finished walking at 11:13a.m.
- For how many minutes was Lee walking?
-

- 10** Seema has a sister who is 4 years older than her.
Their combined ages will be 44 in 10 years' time.
- How old is Seema now?
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- 11** Dan added up all the prime numbers less than 10 and wrote down the answer.
Dan then switched the digits round to form a new number.
Finally, Dan subtracted the new number from 100.
- What was his final result?
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- 12** One ticket in every 8 sold was a winner at a lucky dip stall at a school fair.
- How many of the 272 tickets sold were winners?
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STOP WORKING. You may check your work from this section only.

