

Test 1

Final score

20 %

For all of the questions in this test, do the calculation entirely in your head with no written 'working' and just write down the answer.

In questions 1 to 10 you are reminded of 10 useful strategies which may help you in later questions.

1 3×19 _____

* Try 3×20 and then subtract 3

2 $\pounds 12.80 \div 4 \pounds$ _____

* Divide by 2 and then by 2 again

3 27×5 _____

* Multiply by 10 then divide by 2

4 $53 - 19$ _____

* Subtract 20 then add 1

5 $102 \div 6$ _____

* Divide by 2, then by 3

6 0.9×8 _____

* You know that $9 \times 8 = 72$

7 $\frac{3}{4}$ of 40 _____

* Find $\frac{1}{4}$ then multiply by 3

8 $15 + 23 + 35$ _____

* $15 + 35 = 50$ first

9 1.9×2 _____

* The result must be about 4

10 17×12 _____

* The units digit of the result is 4

11 Jennie has 23 sweets in her bag. She eats 8 sweets and gives 5 to her brother. How many sweets does Jennie have left?

12 There are 17 frogs on a lily pad. 9 jump off and 7 climb on. How many frogs are now on the lily pad?

13 What is the cost of 4 packets of crisps costing 39 pence each?

£ _____

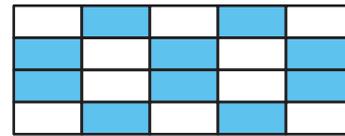
14 Sandra left school at 15:45 and walked for 37 minutes to reach home. At what time did she get home? _____ : _____

15 What is the smallest number, greater than 20, which divides exactly by 6? _____

16 Given that $204 \div 12 = 17$, what is $204 \div 6$?

17 By how much is 3×12 greater than 2×13 ?

18 The diagram shows a rug with a pattern of rectangles.



What percentage of the rectangles is blue?

_____ %

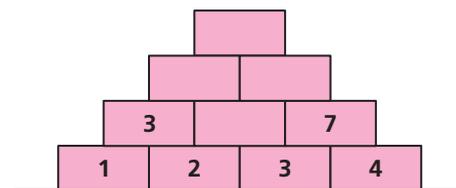
19 Shonagh is thinking of a number and gives the following clues:

"My number is:

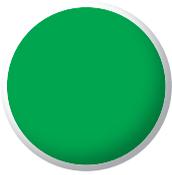
- less than 20
- a multiple of 4
- 1 more than a multiple of 5"

What number is Shonagh thinking of?

20 On this tower of bricks, the number on each brick is the sum of the numbers on the two bricks supporting it.



What number is on the top brick? _____



Test 2

Final score

20 ___ %

For all of the questions in this test, do the calculation entirely in your head with no written 'working' and just write down the answer.

1 Write in figures the number which is thirteen greater than two hundred and two.

2 Christmas cards are sold in packs of 10 and cost £1.50 per pack. Guy will need 70 cards for his friends. What will be the total cost?
£ _____

3 Find the value of $3^2 - 2^2$ _____

4 What is the perimeter of a rectangle measuring 12 cm by 4 cm? _____ cm



5 A pudding for 6 people requires 300 ml of milk. How many millilitres of milk are required to make the same pudding for 2 people? _____ ml

6 A sweatshirt normally costs £24.00. The price is reduced by a third in a sale. What is the sale price? £ _____

7 Joanne won a running race with a time of 3 minutes and 52 seconds. Sophie finished 13 seconds behind Joanne. What was Sophie's time? _____ minutes _____ seconds

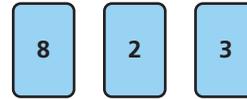
8 What is $2 \times 3 \times 4$? _____

9 Robin buys 3 ice lollies costing 99p each. How much change does he receive from a £5 note?
£ _____

10 What is a quarter of 120? _____

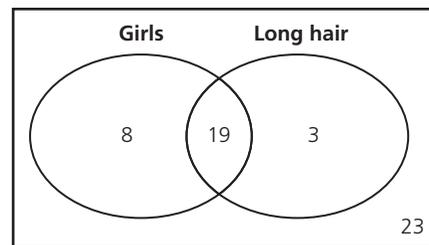
11 Sean is thinking of two integers (whole numbers). The sum of the integers is 20 and the difference between them is 10. What is the smaller number? _____

12 Ahmed has the three number cards below.



What is the smallest even number he can make by placing all three cards side by side?

13 The Venn diagram shows some information about children in Year 5



How many girls are there in Year 5?

14 The mode of six numbers is 4 and five of the numbers are 3, 4, 5, 3 and 4

What is the sixth number? _____

15 Which number between 100 and 104 is divisible exactly by 3? _____

16 What is the smallest number of British coins needed to pay exactly 47 pence? _____

17 Holly has 20 centimetre cubes. 6 are blue and half of the others are red. The rest are green. How many cubes are green? _____

18 How many of the following calculations give a result with a units digit 5? _____

8×5 $25 \div 5$ $86 - 41$ $56 + 109$

19 Tara's birthday is 14 June and Angela's birthday is 20 June. This year Tara's birthday is on a Saturday. On which day of the week is Angela's birthday? _____

20 What is the sum of the first four even numbers? _____



Test 3

Final score

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For all of the questions in this test, do the calculation entirely in your head with no written 'working' and just write down the answer.

In questions 1 to 10 you are reminded of 10 useful strategies which may help you in later questions.

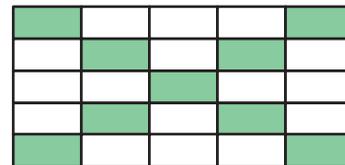
- 1 2×29 _____
* Try 2×30 and then subtract 2
- 2 $\pounds 16.20 \div 4$ _____
* Divide by 2 and then by 2 again
- 3 17×5 _____
* Multiply by 10 then divide by 2
- 4 $45 - 29$ _____
* Subtract 30 then add 1
- 5 $96 \div 12$ _____
* Divide by 4, then by 3
- 6 0.7×9 _____
* You know that $7 \times 9 = 63$
- 7 $\frac{3}{5}$ of 60 _____
* Find $\frac{1}{5}$ then multiply by 3
- 8 $17 + 21 + 33$ _____
* $17 + 33 = 50$ first
- 9 2.1×4 _____
* The result must be about 8
- 10 23×12 _____
* The units digit of the result is 6
- 11 Linda has 40 sweets in her bag. She eats 9 sweets and gives 13 to her brother. How many sweets does Linda have left?

- 12 There are 26 butterflies on a bush. 7 fly away and 11 land on the bush. How many butterflies are now on the bush?

- 13 What is the cost of 5 packets of crisps costing 49 pence each? \pounds _____
- 14 Kiera left school at 3.30 p.m. and walked for 48 minutes to reach home. At what time did she get home? _____
- 15 What is the smallest number, greater than 20, which divides exactly by 7? _____
- 16 Given that $200 \div 8 = 25$, what is $2000 \div 8$?

- 17 By how much is 4×12 greater than 2×14 ?

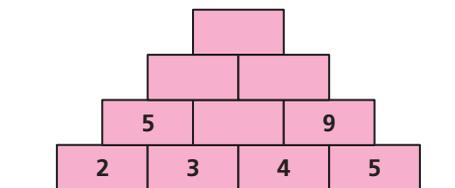
- 18 The diagram shows a rug with a pattern of rectangles.



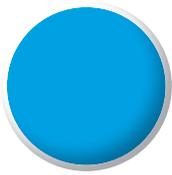
What percentage of the rectangles is green?
_____ %

- 19 Sheena is thinking of a number and gives the following clues:
"My number is:
• less than 10
• prime
• 1 less than a square number"
What number is Sheena thinking of? _____

- 20 On this tower of bricks, the number on each brick is the sum of the numbers on the two bricks supporting it.



What number is on the top brick? _____



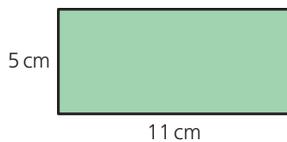
Test 4

Final score

20 %

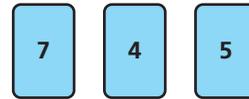
For all of the questions in this test, do the calculation entirely in your head with no written 'working' and just write down the answer.

- 1 Write in figures the number which is twenty-four greater than one hundred and eight. _____
- 2 Postcards are sold in packs of 5 and cost £1.45 per pack. Liam needs 20 cards to send to his friends. What will be the total cost? £ _____
- 3 Find the value of $4^2 - 2^2$ _____
- 4 What is the perimeter of a rectangle measuring 11 cm by 5 cm? _____ cm



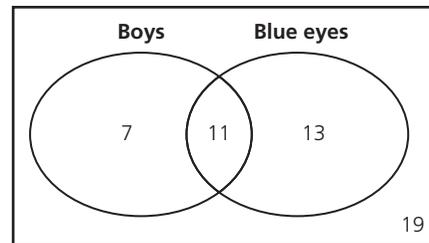
- 5 A pudding for 4 people requires 200 ml of milk. How many millilitres of milk are required to make the same pudding for 6 people? _____ ml
- 6 A sweater normally costs £30.00. The price is reduced by a third in a sale. What is the sale price? £ _____
- 7 Tanya won a running race with a time of 2 minutes and 15 seconds. Shanna finished 13 seconds behind Tanya. What was Shanna's time? _____ minutes _____ seconds
- 8 What is $3 \times 4 \times 5$? _____
- 9 Louis buys 3 ice-creams costing £1.10 each. How much change does he receive from a £5 note? £ _____
- 10 What is a quarter of 280? _____
- 11 Jamie is thinking of two integers (whole numbers). The sum of the integers is 12 and the difference between them is 6. What is the smaller number? _____

12 Brad has the three number cards below.



What is the smallest odd number he can make by placing all three cards side by side? _____

13 The Venn diagram shows some information about children in Year 5



How many children in Year 5 have blue eyes? _____

- 14 The mode of five numbers is 6 and four of the numbers are 6, 8, 4 and 9. What is the fifth number? _____
- 15 Which number between 95 and 100 is divisible exactly by 6? _____
- 16 What is the smallest number of British coins needed to pay exactly 39 pence? _____
- 17 Stefanie has 40 buttons. 14 are blue and half of the others are red. The rest are green. How many buttons are green? _____
- 18 How many of the following calculations give a result with a units digit 3? _____
 6×9 $21 \div 7$ $41 - 28$ $67 + 76$
- 19 On 31 December, Louisa's age was recorded as 9 years 11 months. In which month is her birthday? _____
- 20 What is the sum of the first four odd numbers? _____



Test 5

Final score

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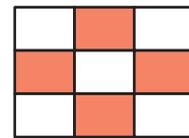
- 1 3×39 _____
* Try 3×40 and then subtract 3
- 2 $£6.50 \times 4$ £ _____
* Double and then double again
- 3 $240 \div 5$ _____
* Divide by 10 then multiply by 2
- 4 $45 + 29$ _____
* Add 30 then subtract 1
- 5 $182 \div 14$ _____
* Divide by 2, then by 7
- 6 50×7 _____
* You know that $5 \times 7 = 35$
- 7 $\frac{3}{4}$ of 80 _____
* Find $\frac{1}{4}$ then multiply by 3
- 8 $29 + 14 + 11$ _____
* $29 + 11 = 40$ first
- 9 19×7 _____
* The result must be about 140
- 10 17×11 _____
* The units digit of the result is 7
- 11 Ben has 30 marbles in his pocket. He loses 7 marbles to Sam and loses 15 to Tom. How many marbles does Ben have now?

- 12 There are 24 swallows on a telephone wire. 5 leave and 16 land on the wire. How many swallows are now on the wire? _____

- 13 What is the cost of 7 chocolate bars priced at 61 pence each? £ _____
- 14 Karen reached home at 16:20 after walking for 35 minutes on her way back from school. At what time did she leave school?
_____ : _____
- 15 What is the smallest number, greater than 30, which divides exactly by 9? _____
- 16 Given that $400 \div 8 = 50$, what is $400 \div 16$?

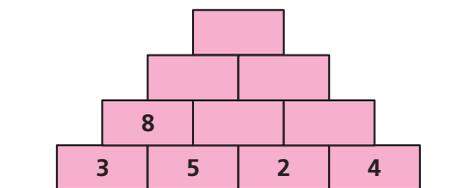
- 17 By how much is 5×13 greater than 3×15 ?

- 18 The diagram shows a rug with a pattern of rectangles.



What fraction of the rectangles is red?

- 19 Clare is thinking of a number and gives the following clues:
"My number is:
• between 10 and 20
• a multiple of 3
• 1 less than a square number."
What number is Clare thinking of? _____
- 20 On this tower of bricks, the number on each brick is the sum of the numbers on the two bricks supporting it.



What number is on the top brick? _____



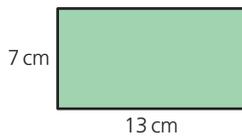
Test 6

Final score

20 ___ %

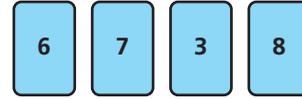
For all of the questions in this test, do the calculation entirely in your head with no written 'working' and just write down the answer.

- 1 Write in figures the number which is thirty-seven less than fifty-five. _____
- 2 Birthday candles are sold in packs of 6 and cost £1.10 per pack. Pippa needs 42 candles for her mother's birthday cake. What will be the total cost? £_____
- 3 Find the value of $3^2 + 1^2$ _____
- 4 What is the perimeter of a rectangle measuring 13 cm by 7 cm? _____ cm



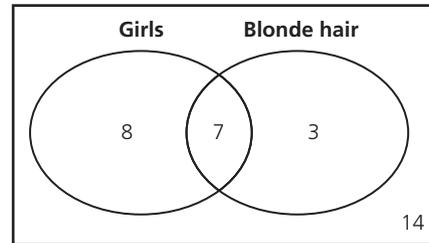
- 5 A pudding for 6 people requires 240 ml of milk. How many millilitres of milk are required to make the same pudding for 9 people? _____ ml
- 6 A sweater normally costs £40.00. The price is reduced by a quarter in a sale. What is the sale price? £_____
- 7 Terry won a running race with a time of 2 minutes and 47 seconds. Chris finished 18 seconds behind Terry. What was Chris's time?
_____ minutes _____ seconds
- 8 What is $4 \times 5 \times 6$? _____
- 9 Max buys 4 ice-lollies costing 90p each. How much change does he receive from a £5 note?
£_____
- 10 What is a third of 180? _____
- 11 Charlie is thinking of two integers (whole numbers). The sum of the integers is 20 and the difference between them is 4. What is the smaller number? _____

12 Elaine has the four number cards below.



What is the largest even number she can make by placing all four cards side by side?

13 The Venn diagram shows some information about children in a club.



How many boys are in the club? _____

- 14 The mode of seven numbers is 4 and six of the numbers are 5, 4, 5, 6, 4 and 6. What is the seventh number? _____
- 15 Which number between 70 and 75 is divisible exactly by 9? _____
- 16 What is the smallest number of British coins needed to pay exactly 67 pence? _____
- 17 Justyna has 50 centimetre cubes. 20 are blue and a third of the others are red. The rest are green. How many cubes are green?

- 18 How many of the following calculations give a result with a units digit 4? _____
 4×11 $28 \div 7$ $41 - 7$ $22 + 106$
- 19 Linda's birthday is 15 May and Tom's is 20 May. Linda's birthday is on Tuesday. On which day is Tom's birthday?

- 20 What is the sum of the first four prime numbers?
