

Powerful Knowledge Application

ALL students in year 7 should be able to answer these examination questions by the end of Spring 1. Students have been given copies of the questions.

Parents/Carers have been sent copies of the mark scheme.

1. Find the solutions to the following calculations using your written methods. You may need to use your homework book for working out space.

a. $17.8 + 2.53 =$

c. $629 + 68 =$

b. $6.2 - 1.77 =$

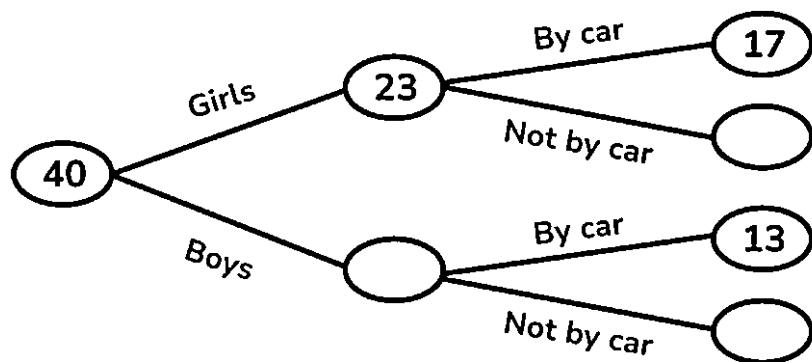
d. $321 - 146 =$

2. There are 40 children at a pre-school.

There are 23 girls,

17 of the girls and 13 of the boys travel by car to pre-school.

Complete the frequency tree.



3.

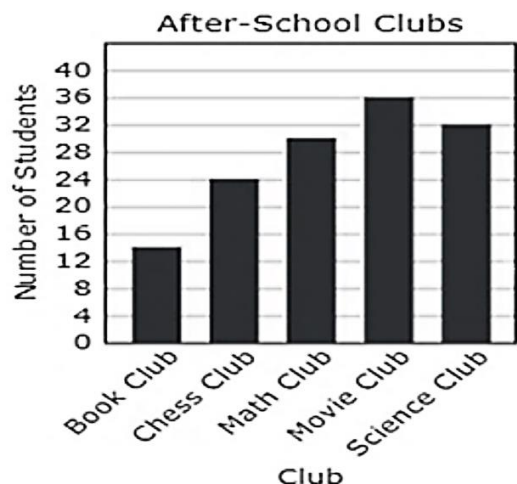
Based on the graph, how many more students are in the science club than the book club? Circle your answer.

a. 20

b. 16

c. 46

d. 18



4. Rosie buys a pack of 5 jugs for £15

She sells all of them for £7 each.

How much profit does Rosie make?

5. What are the first eight multiples of the number 9?

6. What are the factors of 42?

7. Find the value of the following calculations.

a. $11 \times 100 =$

b. $2500 \div 10 =$

c. $246 \div 100 =$

d. $72 \times 10 =$

8. Evaluate (find the value of)

a. $0.3 \times 0.2 =$

b. $0.8 \times 1.2 =$

c. $5.18 \div 7 =$

9. A DVD costs £6.79 each. Work out the cost of 5 DVDs.

10. Choose the correct solution to the following calculations.

1. $4 \times 7 + 19 \times 11$

a. 1144 *b.* 864 *c.* 517 *d.* 237

2. $8 + 16 \div 4 \times 5 - 3$

a. 31 *b.* 25 *c.* 77 *d.* 27

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1. Find the solutions to the following calculations using your written methods. You may need to use your homework book for working out space.

a. $17.8 + 2.53 = 20.33$ c. $629 + 68 = 697$

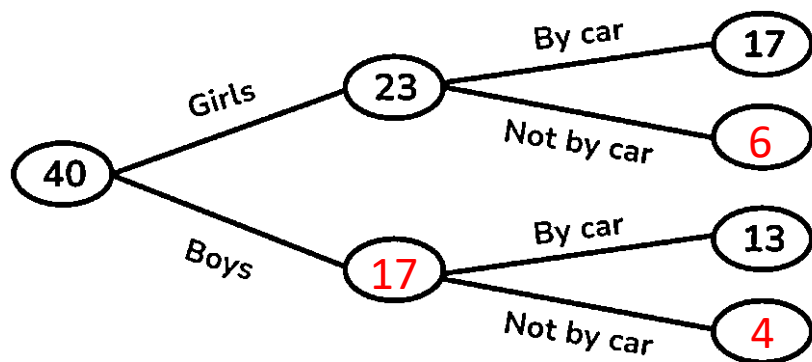
b. $6.2 - 1.77 = 4.43$ d. $321 - 146 = 175$

2. There are 40 children at a pre-school.

There are 23 girls,

17 of the girls and 13 of the boys travel by car to pre-school.

Complete the frequency tree.



3.

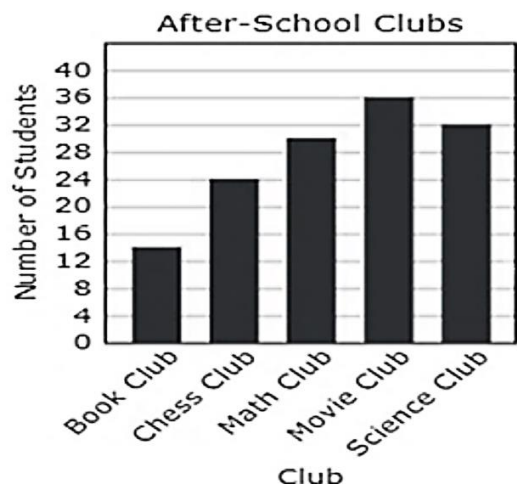
Based on the graph, how many more students are in the science club than the book club? Circle your answer.

a. 20

b. 16

c. 46

d. 18



4. Rosie buys a pack of 5 jugs for £15

She sells all of them for £7 each.

How much profit does Rosie make?

$5 \times 7 = 35$

$35 - 15 = 20$

£20 profit.

5. What are the first eight multiples of the number 9?

9, 18, 27, 36, 45, 54, 63, 72

6. What are the factors of 42? 1, 42, 2, 21, 3, 14, 6, and 7.

7. Find the value of the following calculations.

a. $11 \times 100 = 1100$

b. $2500 \div 10 = 250$

c. $246 \div 100 = 2.46$

d. $72 \times 10 = 720$

8. Evaluate (find the value of)

a. $0.3 \times 0.2 = 0.06$

b. $0.8 \times 1.2 = 0.96$

c. $5.18 \div 7 = 0.74$

9. A DVD costs £6.79 each. Work out the cost of 5 DVDs.

$5 \times 6.79 = £33.95$

10. Choose the correct solution to the following calculations.

1. $4 \times 7 + 19 \times 11$

a. 1144 b. 864 c. 517 d. 237

2. $8 + 16 \div 4 \times 5 - 3$

a. 31 b. 25 c. 77 d. 27