

Name:

Exam Style Questions

# Multiplication



Equipment needed: Calculator, pen

## Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

[www.corbettmaths.com/contents](http://www.corbettmaths.com/contents)

Videos 199, 200



Answers and Video Solutions



1. Work out  $13 \times 9$



$$\begin{array}{r} 13 \\ \times 9 \\ \hline 117 \end{array}$$

117

(1)

2. Work out  $27 \times 14$



$$\begin{array}{r} 27 \\ \times 14 \\ \hline 108 \\ + 270 \\ \hline 378 \end{array}$$

378

(2)

3. Work out  $86 \times 25$



$$\begin{array}{r} 86 \\ \times 25 \\ \hline 430 \\ 1720 \\ \hline 2150 \end{array}$$

2150

(2)

4. Find the product of 53 and 71.



$$\begin{array}{r} 71 \\ \times 53 \\ \hline 213 \\ + 3550 \\ \hline 3763 \end{array}$$

$$\begin{array}{r} 3763 \\ \hline \end{array}$$

(2)

5. A football team bring 8 coaches of supporters to a cup match.  
Each coach holds 53 passengers.



How many supporters are brought to the cup match by the 8 coaches?

$$\begin{array}{r} 53 \\ \times 8 \\ \hline 424 \end{array}$$

$$\begin{array}{r} 424 \\ \hline \end{array}$$

(2)

6. At a wedding there are 18 tables of guests.



14 tables seat 8 guests.  
4 tables seat 12 guests.

Work out the total number of guests.

$$\begin{array}{r} 14 \\ \times 8 \\ \hline 112 \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 112 \\ + 48 \\ \hline 160 \end{array}$$

160

(2)

7. Alfie, Betty and Carmine are tortoises.



Alfie is three times older than Betty.  
Betty is twice the age of Carmine.

34                                  17

Carmine is 17 years old.

Work out how old Alfie is.

$$17 \times 2 = 34$$

$$\begin{array}{r} 34 \\ \times 3 \\ \hline 102 \end{array}$$

102

(2)

8. 800 people went to a charity ice hockey match between Coventry and Guildford.



Adult tickets are £8 each.  
Child tickets are £5 each.

$$\begin{array}{r} 7 \quad 9 \\ 800 \\ - 218 \\ \hline \end{array}$$

Out of the 800 people at the match, 218 are children.

$$582$$

Work out how much money is raised for charity.

$$\begin{array}{r} 582 \\ \times 8 \\ \hline 4656 \end{array}$$

$$\begin{array}{r} 218 \\ \times 5 \\ \hline 1090 \end{array}$$

$$4656 + 1090 = 5746$$

£5746

.....  
(4)

9. James wants to bake 76 cupcakes.  
He places three mini chocolate eggs on the top of each cupcake.



James has 5 bags of mini chocolate eggs.  
Each bag contains 45 mini chocolate eggs.

Does James have enough mini chocolate eggs?  
Show your working.

$$\begin{array}{r} 76 \\ \times 3 \\ \hline 228 \end{array}$$

$$\begin{array}{r} 45 \\ \times 5 \\ \hline 225 \end{array}$$

He is 3 short.

No

.....  
(4)

10. Here are two boxes that contain numbers.



Box 1

7	5
9	4

Box 2

19	74
25	96

Circle one number from each box that multiply together to give an answer between 500 and 600

$$7 \times 74 = 518$$

(2)

11. A mug weighs 293g



A shelf can safely support up to 2kg.

Work out if 7 mugs can be placed on the shelf?  
Show your working.

$$\begin{array}{r} 293 \\ \times 7 \\ \hline 2051 \text{ g} \\ 2.051 \text{ kg} \end{array}$$

No

(3)

12. Mr Jones owns an electronics shop.  
He orders 16 laptops at £312 each.



Mr Jones sells the 16 laptops at £500 each.

Work out the profit.

$$\begin{array}{r} 312 \\ \times 16 \\ \hline 1872 \\ + 3120 \\ \hline 4992 \end{array}$$

$$\begin{array}{r} 500 \\ \times 16 \\ \hline 3000 \\ + 5000 \\ \hline 8000 \end{array}$$

$$\begin{array}{r} 799 \\ 8000 \\ - 4992 \\ \hline 3008 \end{array}$$

£ 3008  
(4)

13. Timothy saves £34 a week.



Calculate how much money Timothy will save in one year.

$$\begin{array}{r} 34 \\ \times 52 \\ \hline 68 \\ + 1700 \\ \hline 1768 \end{array}$$

£ 1768  
(2)

14. A theatre has 46 rows.  
There are 42 seats in each row.



During a show at the theatre, there are 50 empty seats.

Work out how many people are watching the show.

$$\begin{array}{r}
 46 \\
 \times 42 \\
 \hline
 92 \\
 1840 \\
 \hline
 1932
 \end{array}$$

$$\begin{array}{r}
 81 \\
 1932 \\
 - 50 \\
 \hline
 1882
 \end{array}$$

1882

(3)

15. Jordan spends 35 minutes reading every day.



Work out how long Jordan spends reading during the month of July.  
Give your answer in minutes.

31 days

$$\begin{array}{r}
 35 \\
 \times 31 \\
 \hline
 35 \\
 1050 \\
 \hline
 1085
 \end{array}$$

1085 minutes

(2)



16. Amanda buys 8 boxes of sweets.



Each box contains 12 packets of sweets.

Each packet contains 16 sweets.

How many sweets does Amanda buy in total?

$$\begin{array}{r} 16 \\ \times 12 \\ \hline 32 \\ + 160 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 192 \\ \times 8 \\ \hline 1536 \end{array}$$

1536

.....  
(3)

17. Write the two missing digits to make this calculation correct.



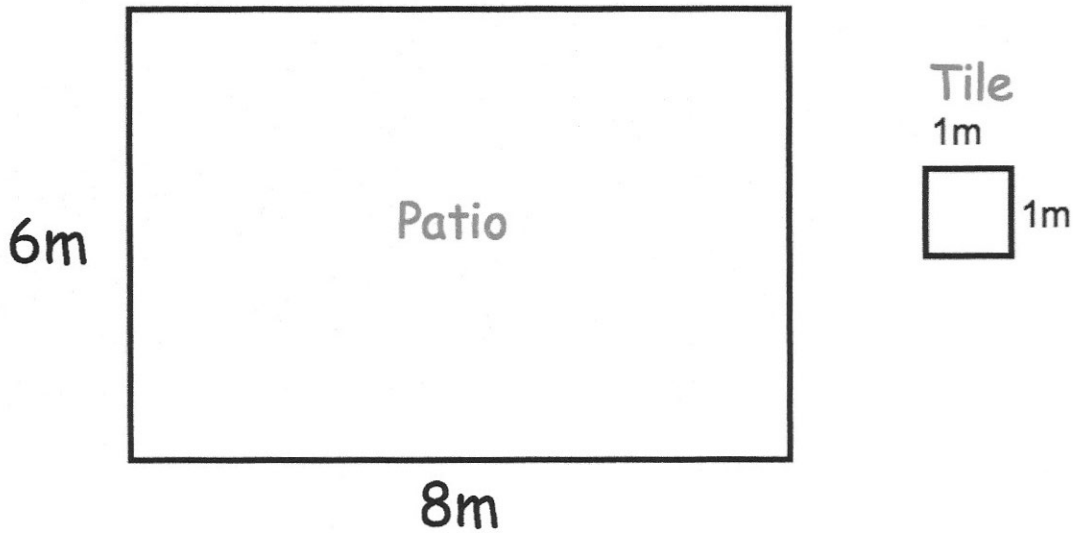
$$\begin{array}{r} \phantom{0} 5 \boxed{6} \\ \times \phantom{0} \boxed{3} 8 \\ \hline \phantom{0} 4 4 8 \\ 1 6 8 0 \\ \hline 2 1 2 8 \end{array}$$

(2)

18.



Not to scale



Leanne is tiling her patio.  
The patio is 6m by 8m  
Each square tile is 1m by 1m.  
Each tile cost £3

Calculate the cost of tiling the patio.

$$8 \times 6 = 48 \text{ tiles needed}$$

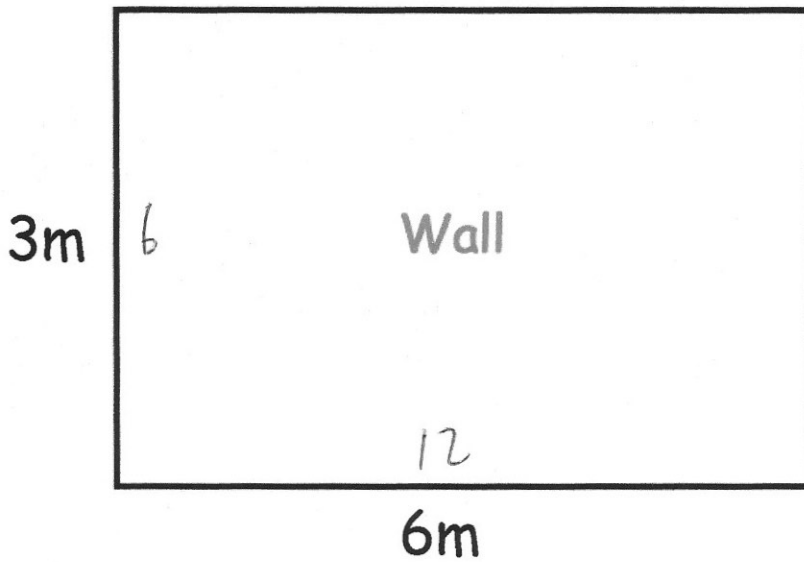
$$\begin{array}{r} 48 \\ \times 3 \\ \hline 144 \end{array}$$

£ 144  
(3)

19.



Not to scale



Tile



Mollie is tiling her bathroom wall.  
The wall is 6m by 3m  
Each square tile is 50cm by 50cm  
Each tile cost £4

Calculate the cost of tiling the wall.

$$6 \times 12 = 72 \text{ tiles}$$

$$\begin{array}{r} 72 \\ \times 4 \\ \hline 288 \end{array}$$

£ 288  
(4)

20.



**CARS'R'US**

Small car:  
£37 per day plus 25p per mile

Suzie hires a small car for 9 days.  
She drives a total of 200 miles.

Find the total cost.

$$\begin{array}{r} 37 \\ 6 \times 9 \\ \hline £ 333 \end{array}$$

$$\begin{array}{l} 25 \times 100 = 2500 \\ 25 \times 200 = 5000p \\ \phantom{25 \times 200} = £50 \end{array}$$

$$333 + 50$$

$$£ \dots 383 \dots \quad (3)$$

21. The area of a rectangle is found by multiplying the length and the width.



Calculate the area of the rectangle.

$$\begin{array}{r} 27 \\ \times 14 \\ \hline 108 \\ 270 \\ \hline 378 \end{array}$$

$$\dots 378 \dots \text{cm}^2 \quad (2)$$

22. A primary school are carpeting a classroom.  
The room is 9 metres by 7 metres.



The carpet is £29 per square metre.

Calculate the cost of the carpet.

$$9 \times 7 = 63 \text{ m}^2$$

$$\begin{array}{r} 63 \\ \times 29 \\ \hline 567 \\ + 1260 \\ \hline 1827 \end{array}$$

£.....  
1827  
(3)

23. James bought a motor scooter on hire purchase.  
He paid a deposit of £275 and 18 monthly payments of £36.



At the end of the payments, he sold the motor scooter for £450.

How much did it cost him in total?

$$\begin{array}{r} 36 \\ \times 18 \\ \hline 288 \\ + 360 \\ \hline 648 \end{array}$$

$$\begin{array}{r} 648 \\ + 275 \\ \hline 923 \\ - 450 \\ \hline 473 \end{array}$$

£.....  
473  
(3)

24. Work out  $375 \times 52$



$$\begin{array}{r} 375 \\ \times 52 \\ \hline 750 \\ + 18750 \\ \hline 19500 \end{array}$$

19500

(3)

25. Work out  $418 \times 129$



$$\begin{array}{r} 418 \\ \times 129 \\ \hline 3762 \\ 8360 \\ + 41800 \\ \hline 53922 \end{array}$$

53922

~~53922~~

~~53922~~

53922  
(3)

26. Kyle is organising a charity concert at school.  
The concert is sold out.  
The hall holds 28 rows of 16 seats.  
Each person will pay £6.



How much money will Kyle raise for charity?

$$\begin{array}{r} 28 \\ \times 16 \\ \hline 168 \\ + 280 \\ \hline 448 \end{array}$$

$$\begin{array}{r} 448 \\ \times 6 \\ \hline 2688 \end{array}$$

£.....  
2688  
(4)

27. Martina has 24 crates of oranges.  
Each crate weighs 37.3kg.  
Martina's van can hold up to 900kg.



Will the van be able to carry all 24 crates?  
Explain your answer.

$$24 \times 37.3 = 895.2 \text{ kg}$$

Yes, 895.2kg is less than 900kg.

(3)