

Name:

Exam Style Questions

Division



Corbettmaths

Equipment needed: Pen, Calculator

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

Videos 98, 103



Answers and Video Solutions



1. Circle the answer to $360 \div 4$



0.9

9

90

900

(1)

2. Circle the answer to $240 \div 30$



0.8

8

80

800

(1)

3. Work out



(a) $171 \div 3$

$$\begin{array}{r} 057 \\ 3 \overline{) 171} \\ \underline{15} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

57

(1)

(b) $875 \div 5$

$$\begin{array}{r} 175 \\ 5 \overline{) 875} \\ \underline{5} \\ 37 \\ \underline{35} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

175

(1)

4. Work out



(a) $882 \div 6$

$$\begin{array}{r} 147 \\ 6 \overline{) 882} \end{array}$$

$$\begin{array}{r} 147 \\ \hline \end{array} \quad (2)$$

(b) $783 \div 9$

$$\begin{array}{r} 087 \\ 9 \overline{) 783} \end{array}$$

$$\begin{array}{r} 87 \\ \hline \end{array} \quad (2)$$

5. Work out



(a) $3276 \div 7$

$$\begin{array}{r} 0468 \\ 7 \overline{) 3276} \end{array}$$

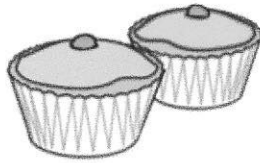
$$\begin{array}{r} 468 \\ \hline \end{array} \quad (2)$$

(b) $9704 \div 8$

$$\begin{array}{r} 1213 \\ 8 \overline{) 9704} \end{array}$$

$$\begin{array}{r} 1213 \\ \hline \end{array} \quad (2)$$

6.



Gianluca, James and Henry are organising a charity cake sale.
They want to make 54 cupcakes in total.

How many cupcakes should each boy make?

$$\begin{array}{r} 18 \\ 3 \overline{) 54} \end{array}$$

.....cupcakes
(2)

7.



A teacher has 153 sweets.

The teacher shares the sweets equally among 9 students.

How many sweets does each pupil receive?

$$\begin{array}{r} 017 \\ 9 \overline{) 153} \end{array}$$

.....sweets
(2)

8.



5 friends go on a coach trip.
The total cost of the trip is £84.

Work out the cost for each person.

$$\begin{array}{r} 16.80 \\ 5 \overline{) 84.00} \end{array}$$

$$\begin{array}{r} 16.80 \\ \text{£} \dots\dots\dots \\ (2) \end{array}$$

9. Work out



(a) $228 \div 12$

$$\begin{array}{r} 019 \\ 12 \overline{) 228} \end{array}$$

- 12
- 24
- 36
- 48
- 60
- 72
- 84
- 96
- 108

$$\begin{array}{r} 19 \\ \dots\dots\dots \\ (2) \end{array}$$

(b) $915 \div 15$

$$\begin{array}{r} 061 \\ 15 \overline{) 915} \end{array}$$

- 15
- 30
- 45
- 60
- 75
- 90

$$\begin{array}{r} 61 \\ \dots\dots\dots \\ (2) \end{array}$$

10. Work out



(a) $680 \div 20$

$$\begin{array}{r} 034 \\ 20 \overline{) 680} \end{array}$$

34

.....
(2)

(b) $520 \div 40$

$$\begin{array}{r} 013 \\ 40 \overline{) 520} \end{array}$$

13

.....
(2)

11. A machine makes 2583 straws in 9 minutes.



Work out how many straws the machine makes per minute.

$$\begin{array}{r} 0287 \\ 9 \overline{) 2583} \end{array}$$

287

.....
(2)

12. Mr Green buys a bicycle that costs £400.
He pays a £50 deposit and pays the rest in 7 monthly payments.



Work out the cost of each monthly payment.

$$400 - 50 = 350$$

$$350 \div 7 = 50$$

£.....50.....
(3)

13. Mrs Phillips buys six chairs.



The total cost of the six chairs is £506.10

How much does each chair cost?

$$506.10 \div 6 = £84.35$$

£.....84.35.....
(2)

14. Poppy has £7.04 credit on her mobile phone.
It costs 8p to send a text message.



How many text messages can Poppy send?

$$\begin{array}{r} 088 \\ 8 \overline{) 704} \\ \underline{72} \\ 84 \\ \underline{84} \\ 0 \end{array}$$

.....88.....messages
(2)

15. Find the remainder when 817 is divided by 9.



$$9 \overline{) 817} \begin{array}{r} 090 \\ \underline{810} \\ 7 \end{array}$$

7

(2)

16. Work out $8328 \div 12$



$$12 \overline{) 8328} \begin{array}{r} 0694 \\ \underline{72} \\ 112 \\ \underline{108} \\ 48 \\ \underline{48} \\ 0 \end{array}$$

12
24
36
48
60
72
84
96
108
120

694

(2)

17. Jacob says



“to divide a number by 28, it is possible to divide by 4 and then divide that answer by another number.”

What is the other number?

$$\text{e.g. } 56 \div 28 = 2$$

or

$$56 \div 4 = 14$$

$$14 \div \square = 2$$

\uparrow
7

7

(1)

18. Rebecca has 6 litres of orange juice. 6000ml



She pours 400ml of orange juice into three glasses.

Rebecca then uses the rest of the orange juice to pour as many 200ml cups as possible.

Work out how many 200ml cups of orange juice Rebecca pours.

$$400 \times 3 = 1200$$

$$6000 - 1200 = 4800$$

$$200 \overline{) 4800} \begin{array}{r} 0024 \\ \underline{4800} \\ 0000 \end{array}$$

24

.....
(3)

19. Evie is putting crayons into boxes.



She puts 5 crayons into each box.

How many boxes can she fill completely with 93 crayons?

$$18.6 \\ 5 \overline{) 93.30}$$

18

.....
(2)

20. 572 people travel by coach to a concert.
Each coach holds 40 passengers.



How many coaches are needed?

$$\begin{array}{r} 014.3 \\ 40 \overline{) 572.00} \\ \underline{40} \\ 172 \\ \underline{160} \\ 120 \\ \underline{120} \\ 00 \end{array}$$

15

(2)

21. How many boxes of chocolates costing £3.20 can be bought from £20?



$$20 \div 3.20 = 6.25$$

6

(2)

22. Paul has £10 to buy rulers at 60p each.



What change should he receive if he buys as many as possible?

$$\begin{array}{r} 0016.66\dots \\ 60 \overline{) 1000.00} \\ \underline{60} \\ 400 \\ \underline{420} \\ 200 \\ \underline{240} \\ 60 \\ \underline{60} \\ 00 \end{array}$$

can buy 16 for £9.60

$$\begin{array}{r} 60 \\ \times 16 \\ \hline 360 \\ + 600 \\ \hline 960 \end{array}$$

40p

(3)

23. There are 147 guests at a wedding.



Each table can seat 8 guests.

(a) How many tables are needed?

$$\begin{array}{r} 018.375 \\ 8 \overline{) 147.3000} \end{array}$$

$$\begin{array}{r} 19 \\ \hline \end{array} \quad (2)$$

(b) How many spare seats will there be?

$$\begin{array}{r} 19 \\ 7 \times 8 \\ \hline 152 \end{array}$$

$$152 - 147 = 5$$

$$\begin{array}{r} 5 \\ \hline \end{array} \quad (2)$$

24. Tomas is filling boxes of cupcakes.



Each box holds 16 cupcakes.

Tomas has 730 cupcakes.

How many boxes can Tomas fill?

$$730 \div 16 = 45.625$$

$$\begin{array}{r} 45 \\ \hline \end{array} \quad (2)$$

25. Calculate $840 \div 35$



$$\begin{array}{r} 24 \\ 35 \overline{) 840} \\ \underline{70} \\ 140 \\ \underline{140} \\ 0 \end{array}$$

35
70
105
140
175
210
245
280

24

.....
(3)

26. Mrs Dixon puts 230 eggs into boxes.
Each box holds 12 eggs.



How many egg boxes does Mrs Dixon need to put all the eggs into boxes?

$$\begin{array}{r} 19 \text{ R } 10 \\ 12 \overline{) 230} \\ \underline{24} \\ 30 \\ \underline{36} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

12
24
36
48
60
72
84
96
108

20

.....
(3)

27. 220 fans travel to a rugby match in minibuses.
Each minibus holds 18 fans.



How many minibuses are needed?

18
36
54
72
90
108
126

$$18 \overline{) 220.222} \begin{array}{r} 012.222 \\ \underline{18} \\ 40 \\ \underline{36} \\ 40 \\ \underline{36} \\ 40 \\ \underline{36} \\ 40 \end{array}$$

13

.....
(3)

28. A football club has £600 to spend on footballs.
Each football costs £8.15



(a) Work out the greatest number of footballs the club can buy.

$$600 \div 8.15 = 73.619\dots$$

73

.....
(2)

(b) Work out how much money the football club will have left.

$$8.15 \times 73 = 594.95$$

$$600 - 594.95 = 5.05$$

£5.05

.....
(2)

29. A company fills boxes with envelopes.



The company have 10652 envelopes.
Each full box contains 48 envelopes.

The company fill as many boxes as possible.

Work out how many envelopes are left over.

$$10652 \div 48 = 221.9166\dots$$

$$221 \times 48 = 10608$$

$$10652 - 10608 = 44$$

44

.....
(3)

30. Work out, writing your answers as a decimal number.



(a) $58 \div 5$

$$\begin{array}{r} 11.6 \\ 5 \overline{) 58.30} \end{array}$$

$$\begin{array}{r} 11.6 \\ \hline \end{array} \quad (2)$$

(b) $188 \div 8$

$$\begin{array}{r} 23.5 \\ 8 \overline{) 188.4000} \end{array}$$

$$\begin{array}{r} 23.5 \\ \hline \end{array} \quad (2)$$

(c) $495 \div 12$

$$\begin{array}{r} 41.25 \\ 12 \overline{) 495.3000} \end{array}$$

$$\begin{array}{r} 41.25 \\ \hline \end{array} \quad (3)$$