

1.

Write the **three** missing numbers in this multiplication grid.



×	8	5	
4		20	28
5	40		35
3	24	15	21

2 marks

2.

$24 \times 7 =$

1 mark

3.

$87 \div 3 =$

1 mark

4.

$319 \times 6 =$

1 mark

5.

$686 \div 8 =$

1 mark

6.

Calculate 465×52

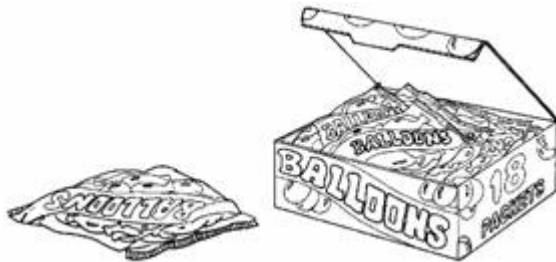
 Show your working

2 marks

7.

There are **5 balloons** in a **packet**.

There are **18 packets** in a **box**.

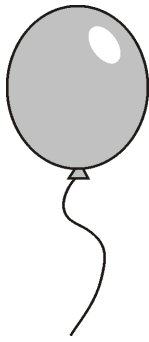


How many balloons are there altogether in a **box**?



1 mark

There are 5 balloons in a packet.



Kofi needs **65 balloons**.

How many **packets** does he need?



1 mark

8.

At a tournament there are 7 players in each team.

There are 112 players altogether.

How many teams is this?



1 mark

9.

Complete these calculations.



$$15 \times 100 = \boxed{}$$

$$\boxed{} \times 10 = 1500$$

$$\boxed{} \div 100 = 150$$

$$150 \div 10 = \boxed{}$$

2 marks

10.

Write the missing number.



$$\div 11 = 17$$

1 mark

11.

Three single-digit numbers multiply to make 504

Write the missing numbers.



×

×

$$= 504$$

1 mark

12.

Dev has a bag of 50p coins and Holly has a bag of 20p coins.



Dev's bag



Holly's bag

Both bags have the same amount of money in.

There are **thirty** 50p coins in Dev's bag.

How many 20p coins are there in Holly's bag?

Show
your
method

20p coins

2 marks

Two 2-digit numbers multiply to make 176

--	--

×

--	--

$$= 176$$

14.



By Thien Gretchen [CC BY-SA 2.0], via Flickr

jar of honey

honey dipper

Chen bought **three** jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?



Show
your
method

A blank sheet of graph paper with a light blue grid pattern. The grid consists of small squares. On the right side of the page, there is a rectangular box with a thick black border, which is currently empty. This box is likely intended for a student's name or other identifying information.

2 marks

Mark schemes

1. Award **TWO** marks for all three numbers correct as shown:

×	8	5	7
4	32	20	28
5	40	25	35
3	24	15	21

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]

2. 168

[1]

3. 29

[1]

4. 1914

[1]

5. 85r6 or 85.75 or $85\frac{3}{4}$ or $85\frac{6}{8}$

[1]

6. Award **TWO** marks for the correct answer of 24 180.

If the answer is incorrect, award **ONE** mark for evidence of appropriate working which contains no more than **ONE** arithmetical error, eg:

- long multiplication algorithm, eg

$$\begin{array}{r} 465 \\ \times 52 \\ \hline 23250 \\ 930 \\ \hline \end{array}$$

wrong answer

- grid method, eg

	400	60	5
50	20000	3000	250
2	800	120	10

- partitioning method, eg

$$465 \times 10 = 4650$$

$$465 \times 20 = 9300$$

$$465 \times 20 = 9300$$

$$465 \times 2 = \underline{930}$$

wrong answer

*In all cases accept follow-through of **ONE** error in working.*

Do not award any marks if:

- the error is in the place value, eg the omission of the zero when multiplying by tens, eg

$$\begin{array}{r} 465 \\ \times 52 \\ \hline 2325 \\ 930 \\ \hline \end{array}$$

wrong answer

- the final (answer) line of digits is missing.

Variations on algorithms are acceptable, provided they represent viable and complete methods.

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[2]

7.

(a) 90

1

(b) 13

1

[2]

8.

16

[1]

9.Award **TWO** marks for all four values correct as shown:

$$15 \times 100 = \boxed{1500}$$

$$\boxed{150} \times 10 = 1500$$

$$\boxed{15000} \div 100 = 150$$

$$150 \div 10 = \boxed{15}$$

If the answer is incorrect, award **ONE** mark for three values correct.

Up to 2

[2]

10.

$$\boxed{187} \div 11 = 17$$

[1]

11.

$$\boxed{7} \times \boxed{8} \times \boxed{9}$$

Numbers may be given in any order.

U1

[1]

12.Award **TWO** marks for the correct answer of 75If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

- $30 \times 50 = 1500$
 $1500 \div 20$

OR

- $30 \times 50\text{p} = \text{£}15$
5 20p coins make £1
 5×15

OR

- $50\text{p} \div 20\text{p} = 2.5$
 30×2.5

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

13.

$$\boxed{1} \boxed{1} \times \boxed{1} \boxed{6}$$

Numbers may be given in either order.

[1]

14.

Award **TWO** marks for the correct answer of £1.55

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

$$£5.40 - £0.75 = £4.65$$

$$£4.65 \div 3$$

*Accept for **ONE** mark £155 **OR** £155p **OR** 1.55p as evidence of an appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]