

**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  $465 \times 52$



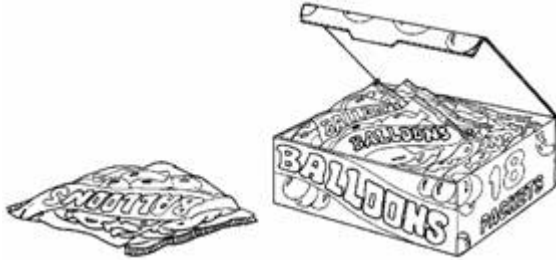
Show your working

2 marks

7

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

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

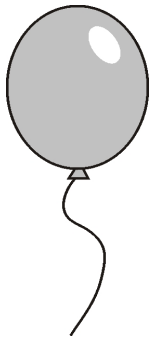


How many balloons are there altogether in a **box**?



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.

 $15 \times 100 = \boxed{\phantom{000}}$

$\boxed{\phantom{000}} \times 10 = 1500$

$\boxed{\phantom{000}} \div 100 = 150$

$150 \div 10 = \boxed{\phantom{000}}$

2 marks

10 Write the missing number.




$$\square \div 11 = 17$$

1 mark

11 Three single-digit numbers multiply to make 504

Write the missing numbers.


$$\square \times \square \times \square = 504$$

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

**13** Two 2-digit numbers multiply to make 176

Write the two missing numbers.

*Handwritten mark*

--	--

 × 

--	--

 = 176

1 mark

**14** A shop sells jars of honey and honey dippers.



By brockvicky [CC BY-SA 2.0], via Flickr

jar of honey



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

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																				

2 marks

## Mark schemes

**1**

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

×	8	5	7
4	<b>32</b>	20	28
5	40	<b>25</b>	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

$$\begin{array}{r}
 465 \\
 \times 52 \\
 \hline
 23250 \\
 \underline{930} \\
 \hline
 \text{wrong answer}
 \end{array}$$

- 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

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

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**

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

**OR**

- $50p \div 20p = 2.5$   
 $30 \times 2.5$

*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]