



KS2.M-Y4N3 Multiplication and Division Facts to 12 x 12

Calculators not allowed · about 30 minutes

Total Marks

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Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** Calculate 6 times 7 and write down the answer.

$$6 \times 7 = ?$$

(1)

- 2** Calculate twelve times twelve and write down the answer.

$$12 \times 12 = ?$$

(1)

- 3** Find the missing factor in this multiplication sentence and write it down.

$$8 \times ? = 56$$

(1)

- 4** Calculate nine times four and write down the answer.

$$9 \times 4 = ?$$

(1)

- 5** Divide 72 into 8 equal parts. How many are in each part?

$$72 \div 8 = ?$$

(1)

- 6** Share 45 equally into 5 groups. How many are in each group?

$$45 \div 5 = ?$$

(1)

- 7** Helen packs stickers into 6 rows with 8 stickers in each row. How many stickers does she pack altogether?

Helen packs stickers into 6 rows with 8 stickers in each row. How many stickers does she pack?

(1)

- 8** A rectangle is made from 3 rows of 7 small squares. Using multiplication, find how many small squares there are altogether.

A rectangle has 3 rows of 7 squares. How many squares are there altogether?

(1)

- 9** Find the missing factor: what number multiplied by 6 equals 54?

$$? \times 6 = 54$$

(1)

- 10** Use the fact $7 \times 8 = 56$ to work out both division calculations below.

(a) $56 \div 7 = ?$

(1)

(b) $56 \div 8 = ?$

(1)

- 11** Explain why 6 times 7 gives the same answer as 7 times 6. Write a short sentence to show your reason.

Explain why 6×7 gives the same answer as 7×6 .

(1)

- 12** Sam has 24 sweets. He shares them equally into 6 bags. How many sweets are in each bag?

Sam has 24 sweets. He shares them equally into 6 bags. How many sweets are in each bag?

(1)

- 13** A box holds 3 packs. Each pack contains 12 pencils. Use multiplication to find the total number of pencils in the box.

A box holds 3 packs. Each pack contains 12 pencils. How many pencils are there in the box?

(1)

- 14** Calculate three times eleven and write down the answer.

$$3 \times 11 = ?$$

(1)

- 15** A farmer has 9 rows with 6 sheep in each row. First, how many sheep are there altogether? Then the farmer moves the sheep into pens with 3 sheep in each pen. How many pens does he need?

(a) How many sheep are there in total?

(1)

(b) How many pens are needed if each pen holds 3 sheep?

(1)

- 16** Explain how you can use the known fact $4 \times 6 = 24$ to work out 8×6 . Write one or two sentences.

Explain your answer.

(1)

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- 17** A theatre has 7 rows with 9 seats in each row. How many seats are there in total?
A theatre has 7 rows with 9 seats in each row. How many seats are there in total?

(1)

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- 18** Challenge: Mia makes trays of cupcakes. Each tray holds 12 cupcakes. She makes 5 trays. How many cupcakes does she make? Then she packs the cupcakes into boxes of 6. How many boxes does she fill? (Two steps).

A little challenge.

(1)

Mark scheme · KS2.M-Y4N3 Multiplication and Division Facts to 12 x 12

Question 1

- B1 42 cao
- Answer: **42**

Question 2

- B1 144 cao
- Answer: **144**

Question 3

- B1 7 cao
- Answer: **7**

Question 4

- B1 36 cao
- Answer: **36**

Question 5

- B1 9 cao
- Answer: **9**

Question 6

- B1 9 cao
- Answer: **9**

Question 7

- B1 48 cao
- Answer: **48**

Question 8

- B1 21 cao
- Answer: **21**

Question 9

- B1 9 cao
- Answer: **9**

Question 10

- (a) B1 8 cao
- (a) Answer: **8**
- (b) B1 7 cao
- (b) Answer: **7**

Question 11

- B1 Explanation that swapping number of groups and size of each group does not change the total, e.g. "6 groups of 7 is the same as 7 groups of 6 so both make 42" oe
- Answer: **Because 6 groups of 7 is the same as 7 groups of 6, both give 42.**

Question 12

- B1 4 cao
- Answer: **4**

Question 13

- **B1** 36 cao
- Answer: **36**

Question 14

- **B1** 33 cao
- Answer: **33**

Question 15

- (a) **B1** 54 cao
- (a) Answer: **54**
- (b) **B1** 18 cao
- (b) Answer: **18**

Question 16

- **B1** Explanation that doubling 4×6 gives 8×6 , e.g. " $4 \times 6 = 24$ so 8×6 is double that: $24 + 24 = 48$ " oe
- Answer: **Double $4 \times 6 = 24$ to get 8×6 : $24 + 24 = 48$.**

Question 17

- **B1** 63 cao
- Answer: **63**

Question 18

- **B1** 60 cupcakes and 10 boxes shown or stated (both correct) cao
- Answer: **60 cupcakes, 10 boxes**