

11+ Maths Practice Paper

Year 4 · Foundation

Lesson 1.5: Factors, multiples and divisibility rules

Read this with your child:

1. This paper has **20 questions** in two parts. Work through them in order. The questions get harder as you go.
2. **Part 1** is multiple choice. Choose **one** answer, A, B, C, D or E, and mark it on the separate answer sheet by drawing a firm line through the box next to its letter. If you change your mind, rub the line out completely and mark your new answer.
3. **Part 2** asks you to write your answer. Write it in the boxes on the answer sheet, **one digit in each box**, starting from the left.
4. If a question is hard, leave it and come back to it at the end.
5. You may use rough paper for working out. You may **not** use a calculator.
6. Suggested time: **25 minutes**.

The answer sheet is after the questions. The answers, with a short explanation of each, are at the back for a parent to mark with.

These are original practice questions written by Elite Learners in the style of 11+ entrance tests. They are not produced by, or connected with, GL Assessment or Cambridge University Press & Assessment (CEM).

Example

Which of these is a factor of 12?

A 3

B 5

C 7

D 8

E 9

Answer: A $12 \div 3 = 4$ exactly, so 3 is a factor of 12.

The answer, A, has already been marked on your answer sheet.

Now turn over and start Part 1.

Part 1: Multiple choice

1

Which of these is a multiple of 4?

- A 22 B 14 C 18 D 10 E 16

2

Which of these is a factor of 20?

- A 6 B 3 C 5 D 8 E 9

3

Which number is NOT a multiple of 5?

- A 25 B 52 C 40 D 15 E 100

4

Which of these is a factor pair of 42?

- A 2 and 20 B 4 and 8 C 5 and 9 D 6 and 7 E 3 and 15

5

Which number is divisible by 10?

- A 370 B 307 C 375 D 3,705 E 1,001

6

Which of these is a factor of 18?

- A 4 B 9 C 5 D 7 E 8

7

Which list shows the first five multiples of 6?

- A 6, 16, 26, 36, 46
B 1, 2, 3, 6, 12
C 6, 12, 18, 20, 24
D 6, 12, 18, 24, 30
E 3, 6, 9, 12, 15

8

Which number is divisible by 2?

- A 4,869 B 3,571 C 3,575 D 2,113 E 3,578
-

9

Which number makes a factor pair with 4 to give 36?

- A 12 B 8 C 9 D 32 E 40
-

10

How many factors does 10 have?

- A 4 B 2 C 3 D 5 E 10
-

11

Which number is a factor of every whole number?

- A 100 B 0 C 2 D 10 E 1
-

12

A prime number has exactly two factors: 1 and itself.

Which of these is a prime number?

- A 9 B 7 C 4 D 6 E 10
-

13

Which list shows all the factors of 12?

- A 2, 3, 4, 6
B 1, 2, 3, 4, 6
C 1, 2, 3, 4, 6, 12
D 1, 2, 3, 6, 12
E 12, 24, 36, 48, 60
-

14

Which number is divisible by 5 but NOT by 10?

- A 85 B 80 C 58 D 100 E 50
-

15

Sam says, "4 is a multiple of 12."

Which of these is right?

- A** No: 12 is a factor of 4
- B** Yes, Sam is right
- C** No: 4 is a multiple of 8
- D** No: 4 is a factor of 12
- E** Yes, because $4 \times 3 = 12$

Part 2: Write your answer

16

What is the 7th multiple of 8?

Write your answer in the boxes on the answer sheet, one digit in each box.

.....

17

How many factors does 16 have?

Write your answer in the boxes on the answer sheet, one digit in each box.

.....

18

What is the largest factor of 30 that is smaller than 30?

Write your answer in the boxes on the answer sheet, one digit in each box.

.....

19

What is the smallest multiple of 7 that is bigger than 50?

Write your answer in the boxes on the answer sheet, one digit in each box.

.....

20

$4 \times ? = 48$. What is the missing factor?

Write your answer in the boxes on the answer sheet, one digit in each box.

.....

Answer sheet

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Name

Draw a firm line through the box next to your answer, like the example.

Part 1: Multiple choice

Ex	A ☒	B ☐	C ☐	D ☐	E ☐
1	A ☐	B ☐	C ☐	D ☐	E ☐
2	A ☐	B ☐	C ☐	D ☐	E ☐
3	A ☐	B ☐	C ☐	D ☐	E ☐
4	A ☐	B ☐	C ☐	D ☐	E ☐
5	A ☐	B ☐	C ☐	D ☐	E ☐
6	A ☐	B ☐	C ☐	D ☐	E ☐
7	A ☐	B ☐	C ☐	D ☐	E ☐
8	A ☐	B ☐	C ☐	D ☐	E ☐
9	A ☐	B ☐	C ☐	D ☐	E ☐
10	A ☐	B ☐	C ☐	D ☐	E ☐
11	A ☐	B ☐	C ☐	D ☐	E ☐
12	A ☐	B ☐	C ☐	D ☐	E ☐
13	A ☐	B ☐	C ☐	D ☐	E ☐
14	A ☐	B ☐	C ☐	D ☐	E ☐
15	A ☐	B ☐	C ☐	D ☐	E ☐

Part 2: Write your answer, one digit in each box

16		19	
17		20	
18			

Answers

For a parent to mark with. One mark for each question: the paper is out of 20. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	E 16	$16 = 4 \times 4$, so it is in the 4 times table.
2	C 5	$20 \div 5 = 4$ exactly.
3	B 52	Multiples of 5 end in 5 or 0. 52 ends in 2.
4	D 6 and 7	$6 \times 7 = 42$.
5	A 370	A number is divisible by 10 when its last digit is 0.
6	B 9	$18 \div 9 = 2$ exactly.
7	D 6, 12, 18, 24, 30	The 6 times table: 6, 12, 18, 24, 30.
8	E 3,578	A number is divisible by 2 when its last digit is even. 3,578 ends in 8.
9	C 9	$4 \times 9 = 36$.
10	A 4	The factors of 10 are 1, 2, 5 and 10.
11	E 1	Every number can be divided by 1 exactly.
12	B 7	7 has only two factors, 1 and 7. The others have more.
13	C 1, 2, 3, 4, 6, 12	In pairs: 1×12 , 2×6 , 3×4 .
14	A 85	85 ends in 5, so it is divisible by 5 but not by 10.
15	D No: 4 is a factor of 12	4 goes into 12 exactly, so 4 is a factor of 12. 12 is a multiple of 4.
16	56	$7 \times 8 = 56$.
17	5	The factors of 16 are 1, 2, 4, 8 and 16.
18	15	$30 \div 2 = 15$, so 15 is a factor, and nothing between 15 and 30 divides 30.
19	56	$7 \times 7 = 49$ and $7 \times 8 = 56$.
20	12	$48 \div 4 = 12$.

Score: out of 20