# 11+ Improving Multiplication and Division Fluency

**Learning focus: Improving multiplication and division fluency, recalling times tables quickly, working with larger numbers, identifying missing values and applying multiplication and division to multi-step problems.**

## Section 1 – Quick-fire multiplication challenge

Calculate without a calculator. Pay attention to accuracy.

1. 12 × 8 = _____

2. 14 × 6 = _____

3. 15 × 9 = _____

4. 16 × 7 = _____

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5. 18 × 5 = _____

6. 24 × 4 = _____

7. 25 × 8 = _____

8. 32 × 6 = _____

9. 45 × 3 = _____

10. 125 × 4 = _____

11. 36 × 12 = _____

12. 48 × 11 = _____

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## Section 2 – Missing number investigations

Find the missing number. Think carefully about the inverse operation.

1. 12 × ___ = 144
2. ___ × 15 = 180
3. 16 × ___ = 192
4. 225 ÷ ___ = 15
5. ___ ÷ 12 = 14
6. 18 × ___ = 306
7. 420 ÷ ___ = 35
8. ___ × 24 = 576
9. 1,000 ÷ ___ = 40
10. 35 × ___ = 1,225

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## Section 3 – Division challenge

Show your working where necessary.

1. 144 ÷ 12 = _____

2. 225 ÷ 15 = _____

3. 288 ÷ 16 = _____

4. 360 ÷ 24 = _____

5. 525 ÷ 25 = _____

6. 432 ÷ 18 = _____

7. 672 ÷ 21 = _____

8. 936 ÷ 12 = _____

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9. 1,200 ÷ 40 = _____

10. 1,125 ÷ 45 = _____

## Section 4 – Match the multiplication and division facts

Match each calculation to the correct answer. There are some similar-looking calculations, so read carefully.

| | |
|---|---|
| 18 × 12 | 16 |
| 288 ÷ 18 | 216 |
| 24 × 9 | 15 |
| 360 ÷ 24 | 32 |
| 16 × 14 | 288 |
| 480 ÷ 15 | 224 |

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## Section 5 – Spot the mistake!

Each calculation contains a mistake. Rewrite it correctly.

1. 14 × 8 = 102

Correct answer: _____

2. 288 ÷ 12 = 26

Correct answer: _____

3. 16 × 15 = 230

Correct answer: _____

4. 450 ÷ 25 = 20

Correct answer: _____

5. 32 × 12 = 374

Correct answer: _____

6. 720 ÷ 18 = 45

Correct answer: _____

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## Section 6 – True or false?

Write T for true or F for false. Correct any false statements.

1. 15 × 12 = 180 _____
2. 360 ÷ 15 = 25 _____
3. 24 × 16 = 384 _____
4. 625 ÷ 25 = 25 _____
5. 18 × 14 = 252 _____
6. 840 ÷ 24 = 35 _____
7. 32 × 15 = 460 _____
8. 1,000 ÷ 40 = 25 _____
9. 45 × 12 = 540 _____
10. 936 ÷ 18 = 52 _____

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## Section 7 – Multi-step word problems

Read each question carefully. Show all your working and include the correct units in your answers.

1. The school trip

A school is organising a trip for 144 pupils. Each coach can carry 48 pupils.

- How many coaches are needed?
- Each coach costs £185 to hire. What is the total cost?

Working:

Answer: _____

2. The concert tickets

A theatre sells 24 rows of tickets, with 18 seats in each row.

- How many seats are there altogether?
- If 396 tickets are sold, how many seats remain empty?

Working:

Answer: _____

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3. The charity fundraiser

A group of 15 pupils each raise £28 for charity.

- How much money do they raise altogether?
- If the money is shared equally between 4 charities, how much does each charity receive?

Working:

Answer: _____

4. The sports competition

There are 288 competitors taking part in a competition. They are divided equally into teams of 12.

- How many teams are there?
- If each team plays 3 matches, how many matches are played altogether?

Working:

Answer: _____

5. The stationery order

A school orders 36 boxes of pens. Each box contains 25 pens.

- How many pens are ordered?
- The pens are shared equally between 15 classrooms. How many pens does each classroom receive?

Working:

Answer: _____

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## Section 8 – The multiplication and division family

Complete all four number sentences using the same three numbers.

Example: 12, 8 and 96.

- 12 × 8 = 96
- 8 × 12 = 96
- 96 ÷ 12 = 8
- 96 ÷ 8 = 12

Now complete the following:

1. Numbers: 15, 16 and 240

- _____ × _____ = _____
- _____ × _____ = _____
- _____ ÷ _____ = _____
- _____ ÷ _____ = _____

2. Numbers: 24, 18 and 432

- _____ × _____ = _____
- _____ × _____ = _____
- _____ ÷ _____ = _____
- _____ ÷ _____ = _____

3. Numbers: 25, 36 and 900

- _____ × _____ = _____
- _____ × _____ = _____
- _____ ÷ _____ = _____
- _____ ÷ _____ = _____

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## Section 9 – Super challenge!

Advanced reasoning

1. I am a number. When I am multiplied by 18, the answer is 486. What am I?

Answer: _____

2. A number divided by 24 gives an answer of 35. What was the original number?

Answer: _____

3. Two numbers multiply together to make 360. One number is 15. What is the other number?

Answer: _____

4. A number is multiplied by 12 and then divided by 4. The final answer is 81. What was the starting number?

Answer: _____

5. I am thinking of two numbers. Their product is 288 and their difference is 4. What are the two numbers?

Answer: _____ and _____

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