

Factors, primes and square numbers

Use factors, multiples, primes and square numbers.

Name: _____ Date: _____

1. List every factor of 24.

2. Which are prime: 9, 11, 15, 17?

3. Find the lowest positive common multiple of 6 and 8.

4. Calculate 7 squared.

5. Calculate 3 cubed.

6. Is 1 prime? Explain.

7. Find the missing factor: $12 \times \underline{\quad} = 96$.

8. Two lights flash every 4 seconds and 10 seconds. They flash together now. After how many seconds do they next flash together?

Answers: Factors, primes and square numbers

Try the questions first. Use these notes to check your thinking.

1. **1, 2, 3, 4, 6, 8, 12, 24**

Each number divides 24 exactly.

2. **11 and 17**

Each has exactly two factors: 1 and itself.

3. **24**

6×4 and 8×3 both equal 24.

4. **49**

$7 \times 7 = 49$.

5. **27**

$3 \times 3 \times 3 = 27$.

6. **No. It has only one factor.**

A prime number must have exactly two factors.

7. **8**

96 divided by 12 = 8.

8. **20 seconds**

20 is the first common multiple of 4 and 10.

Original Trace Learn questions. Curriculum scope: maths programmes of study, Department for Education.
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