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Name _____

Date _____

Factor Finder

Factors and Multiples

Year 5 · Maths · Factors and multiples · Developing

○ Start ○ Build ○ Think ○ Challenge ○ Achieve

Today

Find factors and multiples.

Start Mission 1 · Factor of 12?

Tick Yes if the number is a factor of 12. Tick No if it is not.

1. 2 Yes No

2. 5 Yes No

3. 6 Yes No

4. 8 Yes No

5. 1 Yes No

6. 12 Yes No

Build Mission 2 · Factors and multiples

Answer the factor or multiple question.

1. List all the factors of 18.

_____

2. List all the factors of 15.

_____

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3. Is 24 a multiple of 6? Yes No

4. Is 35 a multiple of 4? Yes No

5. Write the first three multiples of 7.

_____

6. Write one common factor of 8 and 12, other than 1.

_____

7. Write a multiple of 5 between 21 and 29.

_____

8. Is 1 a factor of every whole number? Yes No

Think **Mission 3 · Use them**

Use factors and multiples to solve each one.

1. 36 children sit in teams of 6. How many teams?

_____

2. Which of 9, 14, 21 and 25 are multiples of 7?

_____

3. Write the common multiples of 3 and 4 up to 24.

_____

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4. Write the even factors of 20.

_____

Challenge **Mission 4 · Both tables**

Find a number that is a multiple of both 4 and 6 and is less than 30.

1. One possible number

_____

2. How do you know?

_____

_____

☆ ☆ ☆ **Mission complete**

☐ I can find factors and multiples.

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Answers for parents

Factors and Multiples

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Fold this page back while your child works.

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Learning objectives

- Identify factors of a whole number
- Recognise multiples of a whole number
- Find a common multiple of two numbers

Mission 1 · Start

1. 2 — yes
2. 5 — no
3. 6 — yes
4. 8 — no
5. 1 — yes
6. 12 — yes

Mission 2 · Build

1. List all the factors of 18. — 1, 2, 3, 6, 9, 18
2. List all the factors of 15. — 1, 3, 5, 15
3. Is 24 a multiple of 6? — yes
4. Is 35 a multiple of 4? — no
5. Write the first three multiples of 7. — 7, 14, 21
6. Write one common factor of 8 and 12, other than 1. — 2 or 4
7. Write a multiple of 5 between 21 and 29. — 25
8. Is 1 a factor of every whole number? — yes

Mission 3 · Think

1. 36 children sit in teams of 6. How many teams? — 6 teams
2. Which of 9, 14, 21 and 25 are multiples of 7? — 14 and 21
3. Write the common multiples of 3 and 4 up to 24. — 12 and 24
4. Write the even factors of 20. — 2, 4, 10, 20

Mission 4 · Challenge

1. 12 or 24
2. It is in the 4 times table and the 6 times table.

Teaching tip

A factor divides exactly. A multiple is what you land on when you count in that step.

Ask your child

Is 24 a multiple of 6, a factor of 6, or both?