

HELPING YOUR CHILD USE MULTIPLICATION FACTS TO DERIVE SCALED FACTS



SUPPORTING THE JOURNEY FROM OWL TO PARROT

At school, we help children use their multiplication facts to find related (scaled) facts.



OWL – I UNDERSTAND HOW IT WORKS.

I can use a multiplication fact I know to find other facts by scaling either number.
When we scale a number, the other number stays the same.

Example: I know 7 × 8 = 56
So I can find 7 × 80, 70 × 8, 0.7 × 8 and more.



PARROT – I CAN USE SCALED FACTS QUICKLY AND CONFIDENTLY.

I use my multiplication facts to find other related facts in my head.

I choose the most efficient fact to help me solve problems!

WHAT IS A SCALED FACT?

A scaled fact is a new multiplication fact that uses a number that is 10, 100, 1,000 (or a decimal) times bigger or smaller.
We use a multiplication fact we know to help us.

If I know: 7 × 8 = 56

- × 100 → 7 × 80 = 560
- × 0.1 → 7 × 0.8 = 5.6
- × 0.001 → 0.007 × 8 = 0.056
- × 10 → 70 × 8 = 560

WHY IS THIS IMPORTANT?

- It helps children use what they already know.
- It builds confidence and flexibility with numbers.
- It supports mental calculation and problem solving.
- It helps in real life (money, measures, decimals, percentages and more).



EXAMPLES: USING KNOWN FACTS TO DERIVE SCALED FACTS

Known fact	Example scaled fact	How we know	What we do
7 × 8 = 56	7 × 80 = 560	8 is 10 times bigger	56 × 10 = 560
7 × 8 = 56	70 × 8 = 560	7 is 10 times bigger	56 × 10 = 560
7 × 8 = 56	0.7 × 8 = 5.6	7 is 10 times smaller	56 ÷ 10 = 5.6
7 × 8 = 56	7 × 0.08 = 0.56	8 is 100 times smaller	56 ÷ 100 = 0.56
7 × 8 = 56	700 × 8 = 5600	7 is 100 times bigger	56 × 100 = 5600

Remember: The order of the numbers does not matter. 7 × 80 has the same answer as 80 × 7.

HELPFUL STRATEGIES

Start with a fact you know well
Begin with a multiplication fact you know and trust.

Think: bigger or smaller?
Work out how many times bigger or smaller the new number is.

Adjust the answer the same way
If the number is × 100, multiply the answer by 100. If ÷ 100, divide the answer by 100.

Check your answer
Use estimation or inverse operations to check it makes sense.

REAL LIFE CONNECTIONS

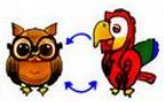
- **Money:** 7 × 8 = £56; 7 × 80 = £560
- **Length:** 3 × 5 = 15 cm; 3 × 500 = 1500 cm
- **Weight:** 4 × 6 = 24 kg; 4 × 0.6 = 2.4 kg
- **Percentages:** 7% × 8 = 56%; 0.7% × 8 = 5.6%

HOW PARENTS CAN HELP AT HOME

ASK QUESTIONS LIKE:
- If 7 × 8 = 56, what is 7 × 80?
- What is 0.7 × 8?
- How did you work that out?

ENCOURAGE EXPLANATIONS
Ask your child to explain how they worked it out.

CELEBRATE PROGRESS
Praise effort and improvement. Small steps lead to big success!



QUICK WAYS TO PRACTISE EVERYDAY

NUMBER CHALLENGES
Give a fact and ask for as many scaled facts as they can!
7 × 8

CARD ACTIVITIES
Use multiplication fact cards. Find and create scaled facts.

REAL LIFE PROBLEMS
Use real situations like shopping, cooking or measuring.

PLAY GAMES
Games like "Bingo", "Dominoes" or "Top Trumps" using multiplication facts.

ONLINE PRACTICE
Use trusted websites or apps with scaled fact challenges.

TOP TIPS

- Practise a little and often.
- Make links between facts.
- Use visuals to build understanding.
- Encourage your child to explain their thinking.
- Keep it positive and stress free.
- Be patient and celebrate every success!

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