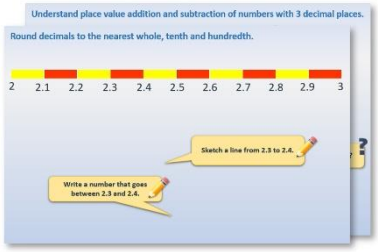
Week 13, Day 3

Understand and use equivalence.

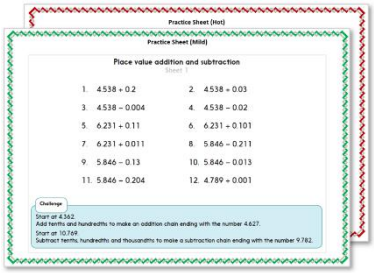
Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by carefully reading through the **Learning Reminders**.



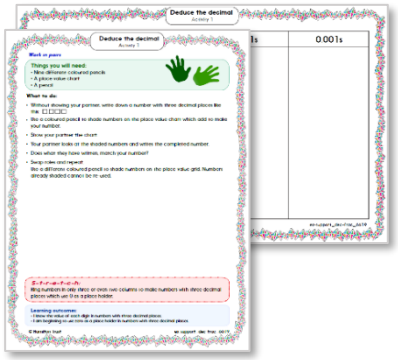
---

2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.



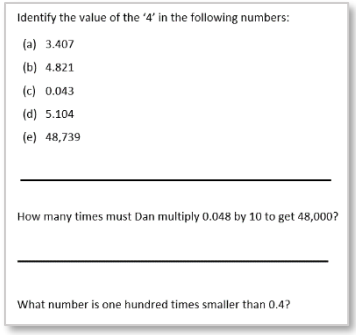
---

3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



---

4. Have I mastered the topic? A few questions to **Check your understanding**.
   Fold the page to hide the answers!



Learning Reminders

Understand and use equivalence.

Each side of the equals sign must be *equal* - the equations must *balance*.

Check these pairs.

$134 + 8 = 200 - 58$ $32 \times 4 = 64 \times 2$

134 + 8 and 200 – 58 each equal 142.

32 x 4 and 64 x 2 each equal 128.

It's like a see-saw.
If we add weight to one side, we must add the same amount to the other side to make it balance…!

Learning Reminders

Understand and use equivalence.

Find the missing numbers that will make these equations balance.

Remember each side of the equals sign must be **equal.**

$48 \div 6 = 2 \times \square$

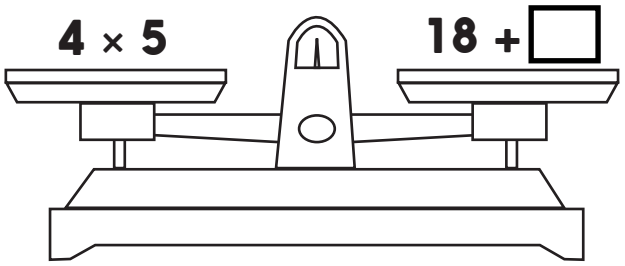
$3.6 \times \square = 10 - 2.8$

Answers

2
4

Practice Sheet Mild

Equivalence



1. $4 \times 5 = 18 + \square$

2. $20 - 6 = \square \times 7$

3. $34 + 27 = 100 - \square$

4. $45 \div 5 = 18 \div \square$

5. $\square \times 6 = 80 - 8$

6. $2 \times 12.5 = 100 \div \square$

7. $3.4 + \square = 12.6 - 7.6$

8. $\square \div 8 = 84 \div 12$

Challenge

Make up your own equations, using a mix of operations in each one.

Practice Sheet Hot

Equivalence

1. $4 \times 5 = 18 + \square$

2. $20 - 6 = \square \times 7$

3. $34 + 27 = 100 - \square$

4. $45 \div 5 = 18 \div \square$

5. $\square \times 6 = 80 - 8$

6. $2 \times 12.5 = 100 \div \square$

7. $3.4 + \square = 12.6 - 7.6$

8. $\square \div 8 = 84 \div 12$ $\square$

Challenge

Investigate the pairs of numbers you could put into these equations to make the left and right hand sides equivalent.

Find at least 3 different solutions for each.

$30 \times \square = \square + 20$ $\square - 5 = \square \div 2$