Summer 2 Week 6 Maths Day 3

Try BBC Bitesize for daily lessons

https://www.bbc.co.uk/bitesize/dailylessons

Try the National Academy online classroom for lessons

https://www.thenational.academy/online-classroom/year-5/#subjects

Don't forget TT Rockstars!

https://play.ttrockstars.com/auth/school/student

Summer 2 Week 6 Maths 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. Look at the learning reminders.
2. Complete 'Mild' or 'Hot' practice questions
3. Finding it tricky? Have a look at 'A bit stuck' and ask a grown up
4. Completed the practise sheets? Try the 'Check your understanding' questions!

Learning Reminders

Summer 2 Week 6 Maths Day 3

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

4

2

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

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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.

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

A bit stuck?

Balance

What is the missing number that will make each of these balance?

1. $7 + 3 = 6 + \square$
2. $3 + 17 = \square + 11$
3. $\square + 40 = 50 + 30$
4. $91 + \square = 30 + 70$
5. $16 - 7 = \square + 5$
6. $5 \times 4 = 2 \times \square$
7. $12 \div 2 = \square - 15$
8. $\square + 15 = 6 \times 5$

Summer 2 Week 6 Maths Day 3

Check your understanding

How many times must I add 7 to 7,728 get to 7,777?

Subtract 205 from each of…

- 12,321
- 45,254
- 20,062

What will the ones digit of your answer be if you carry out the following sequence?

1. Start with 30,460.
2. Add 9999
3. Subtract 999
4. Add 99
5. Subtract 9
6. What's your final number?

What numbers must be subtracted from 21,234 to leave:

- 9999
- 19,235
- 21,035

Complete each sentence:

£4.36 + ☐ = £5 £6.72 + ☐ = £10

4.83 + ☐ = 10

Write the value of each shape.

701 – ★ = 3 x 152 (6.25 x 6) + ◆ = 120 ÷ 3

100 – 55.68 = ½ of Δ

Here is an equation with two empty spaces.

What ONE number will make the equation balance?

(34 x 5) – ☐ = 4 x ☐ x 4

Summer 2 Week 6 Maths Day 3

Answers

Equivalence (mild)

1. $4 \times 5 = 18 + 2$
2. $20 - 6 = 2 \times 7$
3. $34 + 27 = 100 - 39$
4. $45 \div 5 = 18 \div 2$
5. $12 \times 6 = 80 - 8$
6. $2 \times 12.5 = 100 \div 4$
7. $3.4 + 1.6 = 12.6 - 7.6$
8. $56 \div 8 = 84 \div 12$

Equivalence (hot)

1. $4 \times 5 = 18 + 2$
2. $20 - 6 = 2 \times 7$
3. $34 + 27 = 100 - 39$
4. $45 \div 5 = 18 \div 2$
5. $12 \times 6 = 80 - 8$
6. $2 \times 12.5 = 100 \div 4$
7. $3.4 + 1.6 = 12.6 - 7.6$
8. $56 \div 8 = 84 \div 12$

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.

Accept any pairs of numbers that satisfy the equality, e.g.

$30 \times 3 = 70 + 20$ $\qquad$ $37 - 5 = 64 \div 2$

A bit stuck

1. 4
2. 9
3. 30
4. 9
5. 4
6. 10
7. 21

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8. 15

Check your understanding

How many times must I add 7 to 7,728 get to 7,777? 7 times.

Subtract 205 from each of…

- 12,321 12,116
- 45,254 45,049
- 20,062 19,857

If done mentally, check children are jotting down part-answers, e.g. 12,321, 12,121 (subtracting 200), 12,116 (subtracting 5 more). Encourage children to add 205 back to their answers to check.

What will the ones digit of your answer be if you carry out the following sequence? 0, same as the starting number since nine 1s are twice added and twice subtracted.

1. Start with 30,460.
2. Add 9999 40,459
3. Subtract 999 39,460
4. Add 99 39,559
5. Subtract 9 39,550
6. What's your final number? 39,550

Check children make the right adjustments, e.g. when adding 9999, add 10,000 then subtract 1; when subtracting 999, subtract 1000 then add 1.

What numbers must be subtracted from 21,234 to leave:

- 9999 11,235
- 19,235 1,999
- 21,035 199

Complete each sentence:

£4.36 + [64p or £0.64] = £5 £6.72 + [£3.28] = £10

4.83 + [5.17] = 10

Summer 2 Week 6 Maths Day 3

Write the value of each shape.

701 – 245 = 3 x 152 (6.25 x 6) + 2.5 = 120 ÷ 3

100 – 55.68 = ⅓ of 88.64

Here is an equation with two empty spaces.

What ONE number will make the equation balance?

(34 x 5) – 10 = 4 x 10 x 4