



Cool Calculating

Colour the correct number sentence boxes in green and the incorrect ones in red.

1. $4 \times 8 = 32$

2. $20 \div 5 = 5$

3. $12 \div 4 = 4$

4. $10 \times 5 = 50$



5. Four lots of four equal seventeen.

6. $25 \div 5 = 5$

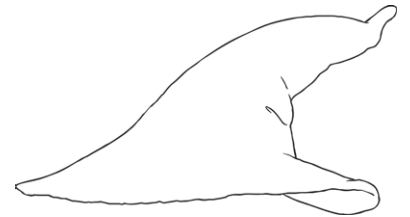
7. Eighty shared by ten equals 8.

8. Twenty four divided by four is six.

9. $6 \times 3 = 18$

10. $60 \div 5 = 10$

Challenge: Correct the answers that were wrong in coloured pen.



Working out space



Cool Calculating

Multiplication Magic: Use Multiplication Magic to answer these.



Example: $30 \times 4 = 120$

$3 \times 4 = 12$ so $30 \times 4 = 120$

Remember

Draw the wizard's hat

Use your multiplication facts to calculate

$5 \times 8 = 40$

$50 \times 8 = 400$

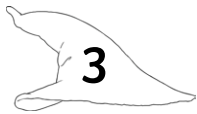
$50 \times 80 = 4000$



$30 \times 8 =$



$4 \times 40 =$



$60 \times 3 =$



$30 \times 40 =$



$110 \times 30 =$



$5 \times 50 =$



$4 \times 110 =$



$120 \times 3 =$

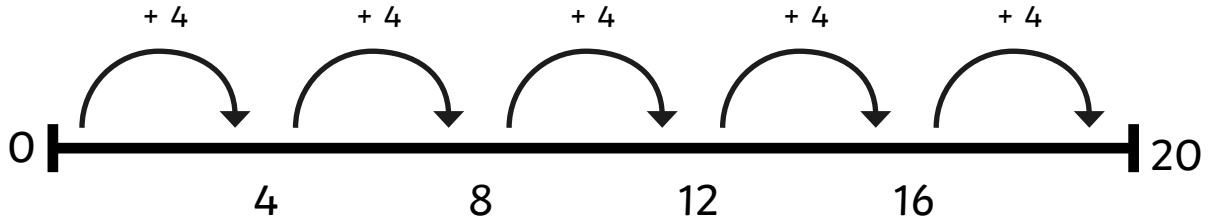




Cool Calculating

Division on a Number Line: Draw number lines to help you to answer these.

Example: $20 \div 4$



It takes 5 hops of 4 to get to 20 So $5 \times 4 = 20$

Remember

1. Draw a number line with zero at the start and the target number at the end.
2. Hop along the number line in groups, labelling the hops correctly.
3. Add up the number of groups which fit into the target number by counting the number of hops.

9. $65 \div 5 =$

10. $48 \div 3 =$

11. $60 \div 4 =$



Cool Calculating

Multiplication Magic: Use Multiplication Magic to answer these.



Example: $30 \times 4 = 120$

$3 \times 4 = 12$ so $30 \times 4 = 120$

Remember

Draw the wizard's hat

Use your multiplication facts to calculate

$5 \times 8 = 40$

$50 \times 8 = 400$

$50 \times 80 = 4000$

1. $30 \times 8 =$

4. $30 \times 40 =$

2. $4 \times 40 =$

5. $110 \times 30 =$

3. $60 \times 3 =$

The Grid Method:

6. $16 \times 4 =$ _____

x	10	6
4		

7. $19 \times 8 =$ _____

x	10	9
8		

8. $17 \times 3 =$ _____

x	10	7
3		

9. $30 \times 8 =$

11. $30 \times 40 =$

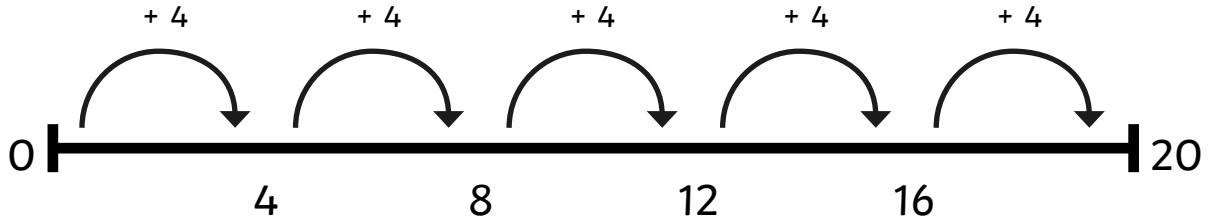
10. $4 \times 40 =$



Cool Calculating

Division on a Number Line: Draw number lines to help you to answer these.

Example: $20 \div 4$



It takes 5 hops of 4 to get to 20 So $5 \times 4 = 20$

12. $68 \div 4 =$

13. $54 \div 3 =$

15. $104 \div 8 =$

The Bus Stop Method: Answer these. Watch out for remainders!

15.
$$\begin{array}{r} \\ 4 \overline{) 26} \end{array}$$

16.
$$\begin{array}{r} \\ 8 \overline{) 36} \end{array}$$

17.
$$\begin{array}{r} \\ 3 \overline{) 35} \end{array}$$

Cool Calculating Answers

★ Colour the correct number sentences in green and the incorrect ones in red.

- | | |
|---------------------|----------------------|
| 1. <i>Correct</i> | 6. <i>Correct</i> |
| 2. <i>Incorrect</i> | 7. <i>Correct</i> |
| 3. <i>Incorrect</i> | 8. <i>Correct</i> |
| 4. <i>Correct</i> | 9. <i>Correct</i> |
| 5. <i>Incorrect</i> | 10. <i>Incorrect</i> |

Challenge: Correct the answers that were wrong in coloured pen.

- | | |
|-------------|---------------|
| 2. 4 | 5. 16 |
| 3. 3 | 10. 12 |

★ ★ Use Multiplication Magic to answer these.

- | | |
|----------------|----------------|
| 1. 240 | 5. 3300 |
| 2. 160 | 6. 250 |
| 3. 180 | 7. 440 |
| 4. 1200 | 8. 360 |

Draw number lines to help you to answer these.

- | | |
|--------------|--------------|
| 1. 13 | 3. 15 |
| 2. 16 | |

★ ★ ★ Use Multiplication Magic to answer these.

- | | | |
|----------------|----------------|----------------|
| 1. 320 | 3. 2100 | 5. 3600 |
| 2. 3600 | 4. 3200 | |

The Grid Method:

- | | | |
|--------------------------------------|-------------------------------------|----------------|
| 6. $40 + 24 = 64$ | 8. $30 + 21 = 51$ | 10. 152 |
| 7. $80 + 72 = 152$ | 9. 64 | 11. 51 |

Division on a Number Line:

- | | | |
|---------------|---------------|---------------|
| 12. 17 | 13. 18 | 14. 13 |
|---------------|---------------|---------------|

The Bus Stop Method

- | | | |
|----------------|----------------|-----------------|
| 15. 6r2 | 16. 4r4 | 17. 11r2 |
|----------------|----------------|-----------------|