Cool Calculating

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

1. Eighty shared by ten equals 8.

2. 6 x 3 = 18

3. 60 ÷ 5 = 10

4. Twenty four divided by four is six.

5. 10 x 5 = 50

6. 4 x 8 = 32

7. 25 ÷ 5 = 5

8. 20 ÷ 5 = 5

9. 12 ÷ 4 = 4

10. Four lots of four equal seventeen.
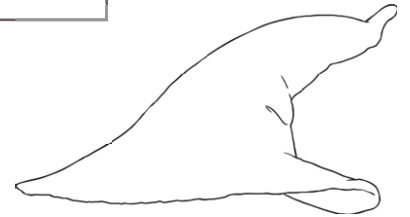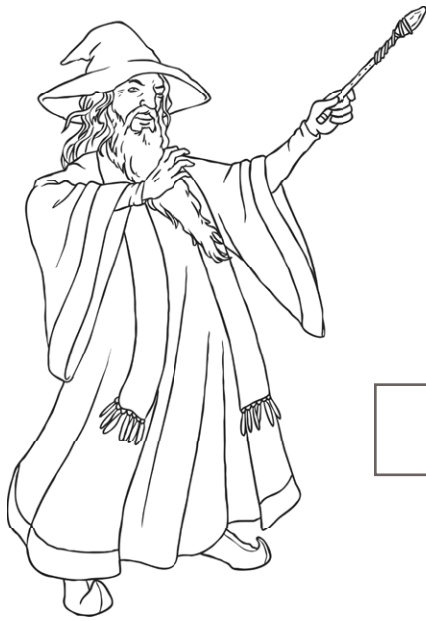
Now correct the answers that were wrong in coloured pen.

Working out space

Cool Calculating

Multiplication Magic
Use Multiplication Magic to answer these.

Example: $\underline{3}0 \times \underline{4} = 120$

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

Remember

1. Draw the wizard's hat to find the multiplication facts.
2. Calculate the answer.
3. Count the number of zeros in the question.
4. Put the zeros onto your answer.

$30 \times 8 =$

$4 \times 40 =$

$60 \times 3 =$

$30 \times 40 =$

$110 \times 30 =$

$5 \times 50 =$
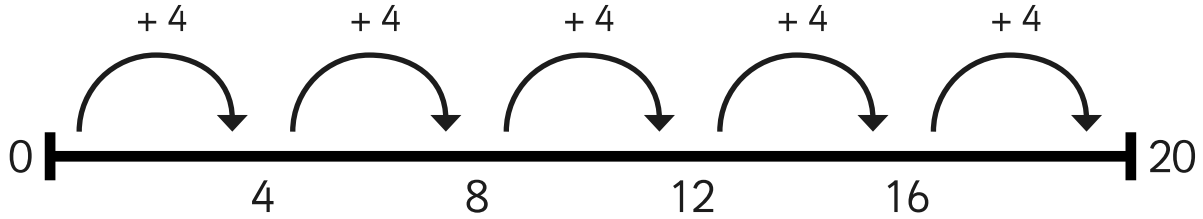
$4 \times 110 =$

$120 \times 3 =$

Cool Calculating

Division on a Number Line
Draw number lines in the space provided to help you to answer these.

Example: 20 ÷ 4

0 — + 4 → 4 — + 4 → 8 — + 4 → 12 — + 4 → 16 — + 4 → 20

It takes 5 hops of 4 to get to 20   **So** *5 x 4 = 20*

9. $65 ÷ 5 =$

10. $48 ÷ 3 =$

11. $60 ÷ 4 =$

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Maths | Year 3 | Multiplication and Division | Mental and Written Calculation

Cool Calculating

Multiplication Magic
Use Multiplication Magic to answer these.

Example: <u>3</u>0 x <u>4</u> = 120

3 x 4 = 12   so   30 x 4 = 120

Remember

1. Draw the wizard's hat to find the multiplication facts.
2. Calculate the answer.
3. Count the number of zeros in the question.
4. Put the zeros onto your answer.

1. 30 x 8   =

2. 4 x 40   =

3. 60 x 3   =

4. 30 x 40   =

5. 110 x 30 =

The Grid Method

6. 16 x 4 = _____

x	10	6
4		

7. 19 x 8 = _____

x	10	9
8		

8. 17 x 3 = _____

x	10	7
3		

Cool Calculating

Use **Expanded Multiplication** to check your answers. Example:

		6	5	
×			8	
		4	0	
	4	8	0	
	5	2	0	
		1		

(5 x 8 = 40)

(60 x 8 = 480)

(40 + 480 = 520)

Put your calculations here:

Use **Expanded Multiplication** to answer these.
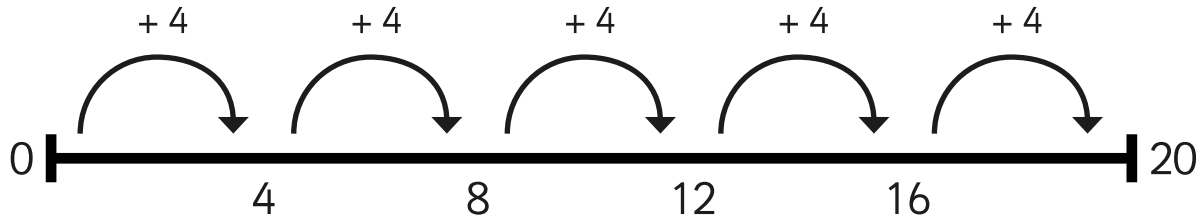
9. 16 x 4

10. 19 x 8

11. 17 x 3

Cool Calculating

Division on a Number Line
Draw number lines in the space provided to help you to answer these.

Example: 20 ÷ 4

$+4$ $+4$ $+4$ $+4$ $+4$

0 ———— 20

4   8   12   16

It takes 5 hops of 4 to get to 20   **So** *5 x 4 = 20*

---

12.   65 ÷ 5 =

13.   48 ÷ 3 =

14.   60 ÷ 4 =

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

15.   4 | 2 6   **16.**   8 | 3 6   **17.**   3 | 3 5

Cool Calculating Answers

1. ✓
2. ✓
3. ✗ - 12
4. ✓
5. ✗ - 3

6. ✓
7. ✓
8. ✗ - 4
9. ✓
10. ✗ - 16

1. 240
2. 160
3. 180
4. 1200

5. 3300
6. 250
7. 440
8. 360

1. 240
2. 160
3. 180
4. 1200
5. 3300
6. 64
7. 152
8. 51
9. 64

10. 152
11. 51
12. 13
13. 16
14. 15
15. 6 r 2
16. 4 r 4
17. 11 r 2