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## Maths Tasks – Yellow Challenge

1

Hannah is working out  $37 \div 3$  using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1

1

She has counted 37 using place value counters and shared them equally between three groups.

- a) Can you explain out loud what Hannah has done?
- b) Why is there one counter left over? It cannot go into any group as all the groups need to be equal.
- c) Work out the division.  $37 \div 3 = 12r1$

2

Draw place value counters in the grids below to solve the calculations. Remember to write the answer next to the calculation.

a)  $47 \div 3 = 15r2$

c)  $89 \div 4 = 22r1$

e)  $49 \div 6 = 7r1$

b)  $26 \div 5 = 5r1$

d)  $32 \div 5 = 6r2$

f)  $47 \div 4 = 11r3$

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## Maths Tasks – Blue Challenge

Use the short, formal method of division to solve these calculations.

Look back at the PowerPoint on the website if you need help to remember the steps.

$$66 \div 3 = 22$$

$$96 \div 4 = 24$$

$$84 \div 4 = 21$$

$$90 \div 6 = 15$$

$$65 \div 5 = 13$$

$$91 \div 7 = 13$$

$$56 \div 4 = 14$$

$$85 \div 5 = 17$$

$$72 \div 2 = 36$$

$$51 \div 3 = 17$$

$$75 \div 3 = 25$$

$$98 \div 7 = 14$$

$$96 \div 8 = 12$$

$$90 \div 5 = 15$$

$$78 \div 6 = 13$$

$$84 \div 6 = 14$$

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## Maths Tasks – Green Challenge

Use the short, formal method of division to solve these calculations.

Look back at the PowerPoint on the website if you need help to remember the steps.

$$156 \div 3 = 52$$

$$536 \div 4 = 134$$

$$172 \div 4 = 43$$

$$744 \div 6 = 124$$

$$275 \div 5 = 55$$

$$441 \div 7 = 63$$

$$228 \div 4 = 57$$

$$762 \div 6 = 127$$

$$356 \div 2 = 178$$

$$654 \div 3 = 218$$

$$387 \div 3 = 129$$

$$364 \div 7 = 52$$

$$248 \div 8 = 31$$

$$735 \div 5 = 147$$

Use the short, formal method of division to solve these problems.

Remember to read the problem, identify the important information and then use the method correctly to find the answer.

- 1) Five bottles hold 525ml of perfume altogether. What is the capacity of one bottle?  
 $525 \div 5 = 105$ . The capacity of one bottle is 105ml.
- 2) T-shirts are sold in packs of 3. How many packs are needed for 162 shirts?  
 $162 \div 3 = 54$ . 54 packs are needed for 162 shirts.
- 3) Books of stamps have 6 stamps on each page. How many pages can be made from 348 stamps?  
 $348 \div 6 = 58$ . 58 pages can be made from 348 stamps.
- 4) How many weeks is 266 days?  $266 \div 7 = 38$ . 266 days is 38 weeks.

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## Maths Tasks – White Challenge

Use the short, formal method of division to solve these calculations.

Look back at the PowerPoint on the website if you need help to remember the steps.

$$457 \div 3 = 152r1$$

$$539 \div 4 = 134r3$$

$$226 \div 4 = 56r2$$

$$748 \div 6 = 124r4$$

$$352 \div 5 = 70r2$$

$$829 \div 7 = 118r3$$

$$274 \div 4 = 68r2$$

$$946 \div 6 = 157r4$$

$$561 \div 2 = 280r1$$

$$875 \div 3 = 291r2$$

Use the short, formal method of division to solve these problems.

Remember to read the problem, identify the important information and then use the method correctly to find the answer.




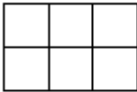
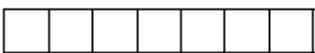
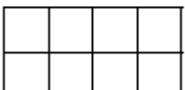
- 1) T-shirts are sold in packs of 6. How many packs are needed for 255 shirts?  
 $255 \div 6 = 42r3$ . 43 packs are needed for 255 shirts.
- 2) There are nine cereal bars in a packet. If all 524 children in a school are given a cereal bar, how many packets are needed?  
 $524 \div 9 = 58r2$ . 59 packets are needed for 524 children.
- 3) Books of stamps have 6 stamps on each page. A company needs 578 stamps. How many books of stamps must they buy?  
 $578 \div 6 = 96r2$ . 97 books of stamps are needed for 578 stamps.
- 4) George is 750 months old. How old is this in years and months?  
 $750 \div 12 = 62r6$ . George is 62 years and 6 months old.

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## Maths Tasks – White+ Extension Challenge

1) The workers at the Twinkl bakery have baked 679 cupcakes and are going to package them ready to sell.

a) Complete the table.

Type of Box	Number of Cupcakes per Box	Total Number of Full Boxes	Number of Cupcakes Left Over
	3	226	1
	4	169	3
	5	135	4
	6	113	1
	7	97	0
	8	84	7

b) Twinkl bakery needs to decide which size box would be the best to use.

What would you suggest? Explain your answer.

*Twinkl bakery should package the cupcakes into boxes of 7 as there would be none left over. This way, they would avoid waste and make more profit.*

$$679 \div 7 = 97$$

2) Which calculation's answer is closest to 300? Prove it!

a)  $648 \div 2 =$      b)  $999 \div 3 =$      c)  $848 \div 8 =$      d)  $896 \div 4 =$

a)  $648 \div 2 = 324$     b)  $999 \div 3 = 333$     c)  $848 \div 8 = 106$     d)  $896 \div 4 = 224$

*648  $\div$  2 equals 324, making it the closest answer to 300. It is only 24 away from 300 whereas the other calculations are considerably further away.*