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## Maths Tasks – Yellow Challenge

1 Rosie is working out  $93 \div 3$  using a place value chart.

Tens	Ones
10 10 10	1
10 10 10	1
10 10 10	1

a) Can you explain out loud what Rosie has done?

She has counted 93 using place value counters and shared them equally between three groups.

b) Work out the division.

$$93 \div 3 = 31$$

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

a)  $66 \div 3 = 22$

c)  $65 \div 5 = 13$

e)  $45 \div 3 = 15$

b)  $86 \div 2 = 43$

d)  $48 \div 6 = 8$

f)  $64 \div 4 = 16$

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## Maths Tasks – Blue Challenge

1 Whitney is working out  $49 \div 4$  using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

She has counted 49 using place value counters and shared them equally between four groups. She has one left over which is the remainder.

- a) Can you explain out loud what Whitney 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.  $49 \div 4 = 12r1$

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 – 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.

$$69 \div 3 = 23$$

$$92 \div 4 = 23$$

$$88 \div 4 = 22$$

$$84 \div 6 = 14$$

$$90 \div 5 = 18$$

$$84 \div 7 = 12$$

$$76 \div 4 = 19$$

$$96 \div 6 = 12$$

$$78 \div 2 = 39$$

$$87 \div 3 = 29$$

$$72 \div 3 = 24$$

$$98 \div 7 = 14$$

$$96 \div 8 = 12$$

$$85 \div 5 = 17$$

$$72 \div 6 = 12$$

$$96 \div 4 = 24$$

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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.

$$25 \div 2 = 12r1$$

$$63 \div 6 = 10r3$$

$$37 \div 3 = 12r1$$

$$70 \div 6 = 11r4$$

$$45 \div 4 = 11r1$$

$$84 \div 8 = 10r4$$

$$62 \div 5 = 12r2$$

$$79 \div 7 = 11r2$$

$$43 \div 3 = 14r1$$

$$86 \div 7 = 12r2$$

$$73 \div 5 = 14r3$$

$$93 \div 5 = 18r3$$

$$79 \div 2 = 39r1$$

$$98 \div 3 = 32r2$$

$$55 \div 4 = 13r3$$

$$99 \div 8 = 12r3$$

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# Maths Tasks – White+ Extension Challenge

Marisa and Lee are collecting rock samples.







- 1) Marisa has collected between 60 and 80 samples. When she divides the bags into four piles, she has none left over. How many samples could she have? Find all the possibilities.







*Marisa could have 60, 64, 68, 72, 76 or 80 samples.*







- 2) Lee is sorting samples into boxes to post to the lab. He has measured samples into bags of different masses.

Polarite	Nebulon	Borealstone	Auroron	Byrnistone
2 grams	3 grams	4 grams	5 grams	8 grams

When his samples arrived at the lab, some of the information the lab needs is missing from Lee's notes. Can you work out what he sent? Find three different ways to identify what samples Lee could have sent. Use place value counters or base ten blocks to help you.

 bags of  = 76 grams  
 lots of  = 90 grams  
 lots of  = 64 grams


 bags of  = 76 grams  
 lots of  = 90 grams  
 lots of  = 64 grams


 bags of  = 76 grams  
 lots of  = 90 grams  
 lots of  = 64 grams


*76 grams – 38 bags of polarite or 19 bags of borealstone.*

*90 grams – 45 bags of polarite, 30 bags of nebulon, 18 bags of auroron.*

*64 grams – 32 bags of polarite, 16 bags of borealstone or 8 bags of byrnistone.*