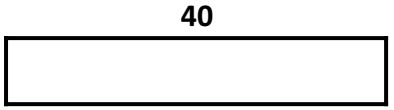
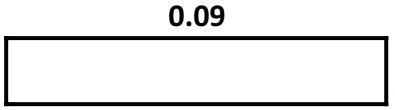
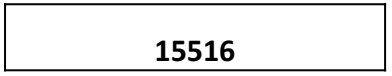
Winner	Champion	Legend
9 × 1 =	96 ÷ 8 =	0.90 × 1 =
4 × 9 =	220 ÷ 2 =	0.40 × 9 =
12 × 8 =	660 ÷ 6 =	1.20 × 8 =
8 × 2 =	3.6 ÷ 9 =	0.80 × 2 =
4 × 2 =	56 ÷ 7 =	0.40 × 2 =
12 × 11 =	30 ÷ 10 =	1.20 × 11 =
3 × 5 =	54 ÷ 9 =	0.30 × 5 =
11 × 8 =	88 ÷ 11 =	1.10 × 8 =
9 × 9 =	30 ÷ 10 =	0.90 × 9 =
12 × 12 =	77 ÷ 11 =	1.20 × 12 =
2 × 9 =	40000 ÷ 5 =	0.20 × 9 =
12 × 3 =	33000 ÷ 11 =	1.20 × 3 =
9 × 3 =	15 ÷ 3 =	0.90 × 3 =
1 × 3 =	5000 ÷ 10 =	0.10 × 3 =
10 × 4 =	0.99 ÷ 11 =	1.00 × 4 =
4 × 6 =	60 ÷ 12 =	0.40 × 6 =



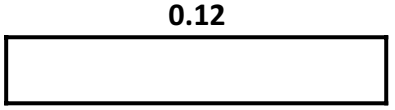
Area: Perimeter:



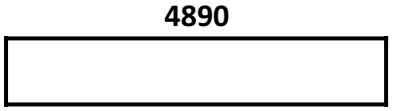
Area: Perimeter:



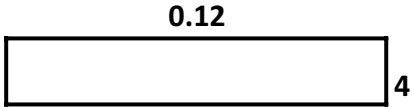
Area: 15516 Perimeter:



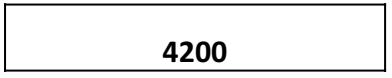
Area: Perimeter:



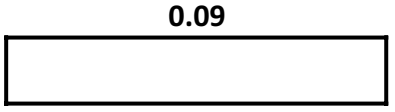
Area: Perimeter:



Area: Perimeter:



Area: 4200 Perimeter:



Area: Perimeter:

Inverse Multiplication and Division

$180 \times 4 = 6 \times 5 \times \square$

$36 \times 7 = 6 \times 6 \times \square$

$297 \times 11 = 11 \times 9 \times \square$

$33 \times 10 = 11 \times 3 \times \square$

$45 \times 11 = 3 \times 3 \times \square$

$231 \times 8 = 3 \times 11 \times \square$

$48 \times 7 = 2 \times 6 \times \square$

$4 \times 7 = 1 \times 1 \times \square$

$297 \times 7 = 11 \times 9 \times \square$

$3 \times 4 \times \square = 6 \times 12 \times 4$

$8 \times 2 \times \square = 16 \times 4 \times 4$

$10 \times 9 \times \square = 50 \times 18 \times 3$

$2 \times 7 \times \square = 4 \times 42 \times 1$

$7 \times 9 \times \square = 35 \times 9 \times 3$

$5 \times 10 \times \square = 20 \times 70 \times 1$

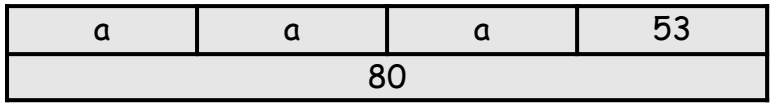
$3 \times 11 \times \square = 9 \times 22 \times 4$

$10 \times 9 \times \square = 50 \times 10 \times 2$

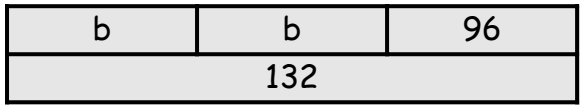
$9 \times 6 \times \square = 18 \times 42 \times 2$

$3 \times 6 + 3 \times 3 =$	$8 \times 7 + 8 \times 5 =$
$14 \times 10 + 14 \times 6 =$	$15 \times 5 + 15 \times 2 =$
$6 \times 3 + 6 \times 10 =$	$16 \times 9 + 16 \times 9 =$
$16 \times 12 + 16 \times 8 =$	$3 \times 11 + 3 \times 9 =$
$14 \times 10 + 14 \times 2 =$	$2 \times 10 + 2 \times 9 =$
$4 \times 2 + 4 \times 2 =$	$3 \times 3 + 3 \times 2 =$
$6 \times 5 + 6 \times 5 =$	$6 \times 11 + 6 \times 4 =$
$17 \times 7 + 17 \times 4 =$	$14 \times 2 + 14 \times 2 =$
$14 \times 9 + 14 \times 10 =$	$12 \times 11 + 12 \times 10 =$

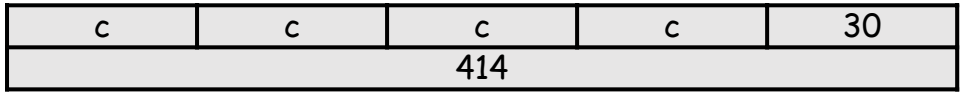
3a + 53 = 80



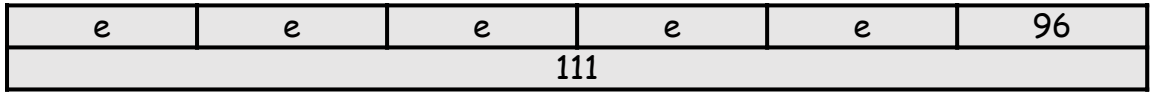
2b + 96 = 132



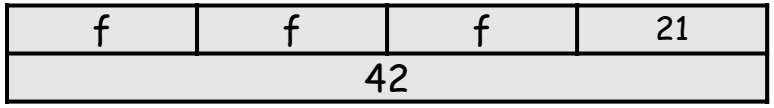
4c + 30 = 414



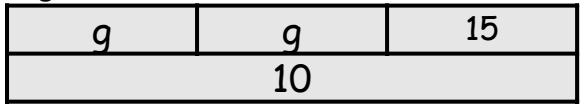
5e + 96 = 111



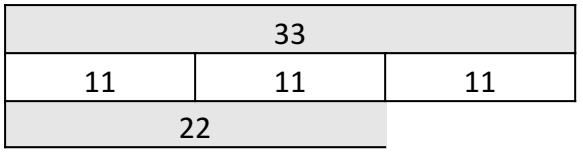
3f + 21 = 42



2g + 15 = 10



$\frac{2}{3}$ of 33



Draw the bar model

$$3\overline{)33}\quad 11$$

your working out

$\frac{5}{7}$ of 560

$\frac{4}{8}$ of 560

Draw the bar model

your working out

$\frac{2}{9}$ of 720

Draw the bar model

your working out

$\frac{13}{9}$ of 711

Draw the bar model

your working out

$\frac{5}{9}$ of 765

Draw the bar model

your working out

100	
	63

78	22

500	
	68

23	59

300	
	75

54	40

200	
	52

28	50

100		
	14	22

75	57

100		
	5	43

25	41

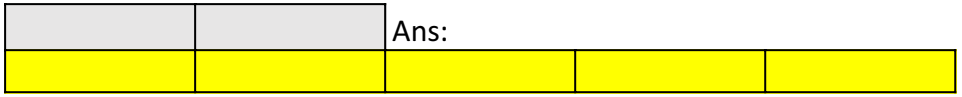
100		
	14	36

52	27

700	
	39

72	56

Share 217 into the ratio of 2 and 5



Ans:

2 parts 7 | 217

Ans: 5 parts

total 7 parts

Share 288 into the ratio of 5 and 7

Share 288 into the ratio of 5 and 7

Share 152 into the ratio of 3 and 5

Share 230 into the ratio of 4 and 6

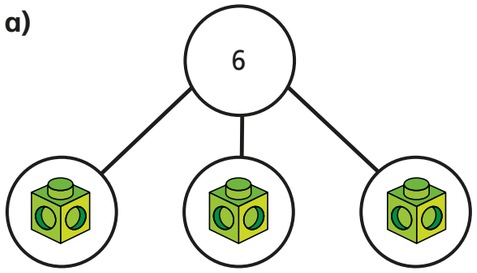
Share 342 into the ratio of 4 and 5

Solve simple one-step equations

1 Write an equation for each part-whole model.

Work out the value of the multilink cube in each equation.

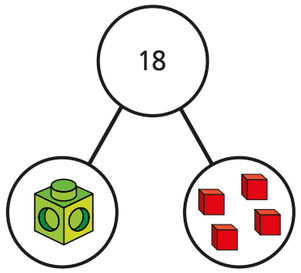
a)



_____

 = ☐

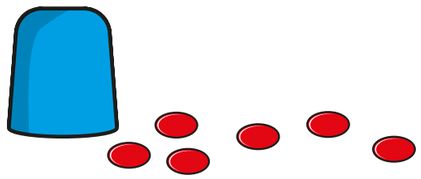
b)



_____

 = ☐

2 There are some counters under the cup.



There are 10 counters in total.

a) If c is the number of counters under the cup, explain why $c + 6 = 10$

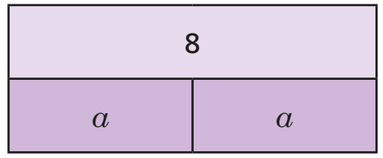
b) Work out the value of c. $c =$ ☐

c) How many counters are under the cup? ☐

3 Write algebraic equations to represent the bar models.

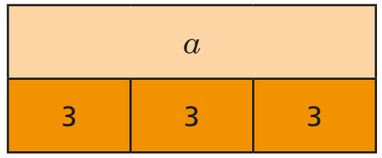
Find the value of a in each one.

a)



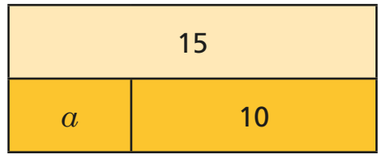
$a =$ ☐

c)



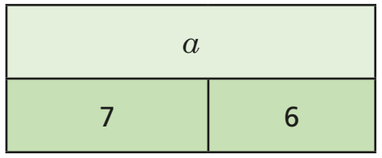
$a =$ ☐

b)



$a =$ ☐

d)



$a =$ ☐

4 Nijah is solving the equation $x - 8 = 20$

$x - 8 = 20$

$x = 20 - 8$

$x = 12$

What mistake has Nijah made?

_____

_____

5 Solve the equations.

a) $x + 7 = 20$

$x =$ ☐

b) $10y = 80$

$y =$ ☐

c) $4m = 22$

$m =$ ☐

d) $g - 3 = 15$

$g =$ ☐

e) $32 = t - 5$

$t =$ ☐

f) $\frac{u}{6} = 3$

$u =$ ☐

6 Filip thinks of a number.

He subtracts 5 from his number.

He ends up with 10

Write an algebraic equation to represent Filip's problem.

_____

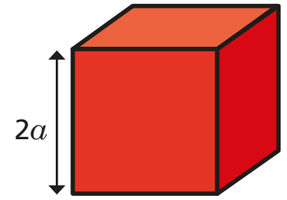
Solve the equation to work out his number.

☐

7 Dexter builds a tower.

Each block is $2a$ high.

He uses 7 blocks.



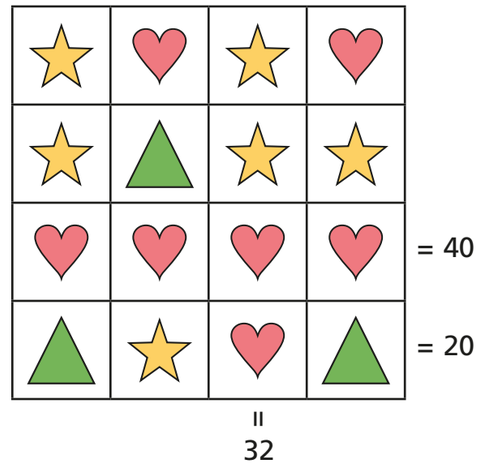
The total height of his tower is 42 cm.

Write an equation to represent the height of Dexter's tower and find the value of a.

$a =$ ☐ cm

8 Work out the value of each shape.

Write the equations that you solved to find the value of each shape.



♥ = ☐ ★ = ☐ ▲ = ☐

Work out the missing total of each row and column.

Compare answers with a partner.