Multiply and Divide by 6

4. Maya is organising flowers into 6 vases.

She says,

I have 48 flowers. How many will go in each vase?

Draw the correct number of flowers in vases and complete the calculations below.
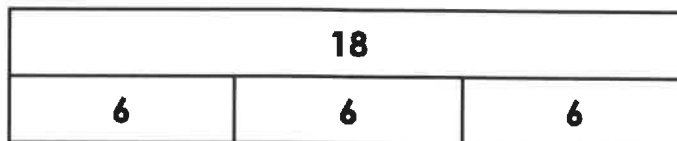
A. ☐ ÷ ☐ = ☐   B. ☐ x ☐ = ☐

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5. Match the calculation to the correct bar model.

A.   5 x 6

B.   6 x 6

C.   3 x 6

1.
18		
6	6	6

2.
30				
6	6	6	6	6

3.
36					
6	6	6	6	6	6
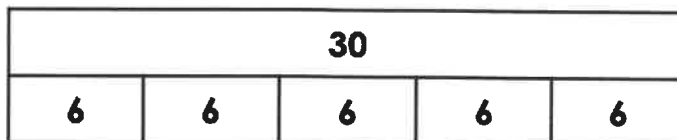
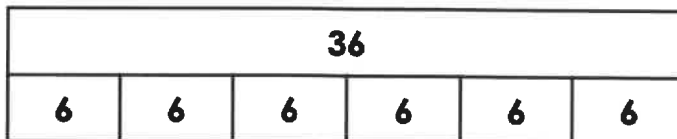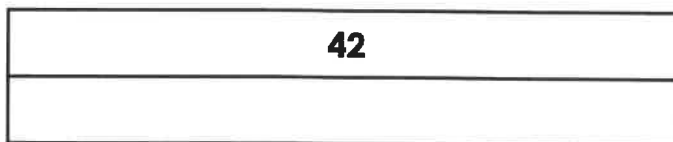**6. A shopkeeper has 42 apples left to sell. The apples come in packs of 6.**

He says,

I have 6 packs of apples left to sell.

42

Explain the shopkeeper's mistake. Use the bar model to prove it.

Short Division

1a. The calculation below is incorrect. Explain why.

	1	3	2	
7	9	²3	¹8	

1b. The calculation below is incorrect. Explain why.

	1	6	2	
3	4	¹5	6	

2a. Use two of the digit cards to create a calculation where the result has six ones. The number being divided must be greater than 215 and less than 600.

[2] [3] [6]

[ ] [1] [ ] [÷] [2] [=]

2b. Use two of the digit cards to create a calculation where the result has no tens. The number being divided must be greater than 150 and less than 950.

[1] [8] [9]

[ ] [ ] [2] [÷] [4] [=]

3a. At a conference there are 840 people and tables seat either 6, 7 or 8 people.

There are only 125 tables available and the organisers want to use as many tables as possible.

How many seats should they use at each table?

3b. A school has 612 pupils. The headteacher is organising a treasure hunt and wants to arrange the pupils in groups of 3, 4 or 6.

Each group needs a compass and there are only 160 available in the school.

How many children should be in each group for the most compasses to be used?