27.01.21

Can I use partitioning to multiply a 2d number by a 1d number?

Use partitioning to help you work out the answers

Example

42 x 3 = 126 42

 40 2

40 x 3 = 120

2 x 3 = 6

120 + 6 = 126

1. 34 x 3 = 102
2. 5 x 32 = 160
3. 27 x 8 = 216
4. 61 x 4 = 244
5. 31 x 8 = 248
6. 57 x 4 = 228
7. 36 x 5 = 180
8. 6 x 93 = 558
9. 8 x 45 = 360
10. 3 x 28 = 84

Challenge questions

1. True or false - True

5 x 30 = 3 x 50

Prove it

1. A coach can carry 65 passengers. How many passengers can seven coaches carry? 455
2. There are 47 Haribos in a bag. How many Haribos would I eat if I ate 4 packets in an evening? 188
3. Use each of the digits 2, 3, 4 ONCE only

Complete this calculation in 6 different ways

 X =

 Which calculation gives the greatest total?

 Which calculation gives you the smallest total?

 What do you notice?

 Does this always happen?

 23 x 4 = 92

 24 x 3 = 72

 32 x 4 = 128

 34 x 2 = 68

 42 x 3 = 126

 43 x 2 = 86