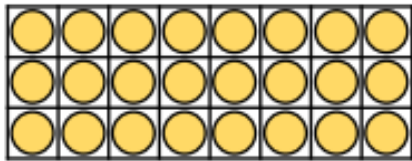


Multiplying and Dividing by 8 – Challenges

Challenge 1:



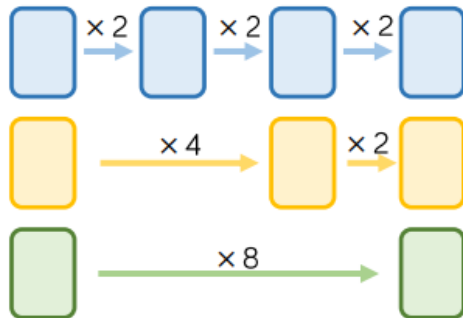
Arrange 24 counters in an array as shown and complete the calculations.

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

Challenge 2:

Start each function machine with the same number.



What do you notice about each final answer?

Tommy knows the 4 times table, but is still learning the 8 times table.

Which colour row should he use? Why?

Challenge 3:

There are 32 children in a PE lesson. They are split into 8 equal teams for a relay race. Use counters or multi-link to represent each child.

There are $\underline{\quad}$ teams with $\underline{\quad}$ children in each team.

Crayons are sold in packs of 8. Year 3 need 48 crayons. How many packs should be ordered?

They should order $\underline{\quad}$ packs of crayons.



Challenge 4:

Which numbers can be divided by 8 without a remainder?

64

32

800

18

200

42

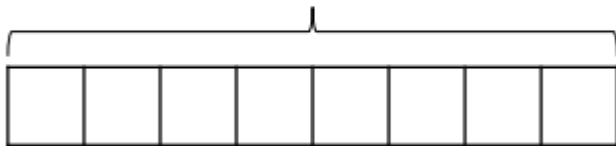
Challenge 5:

Amir shares 24 sweets equally between 8 friends.

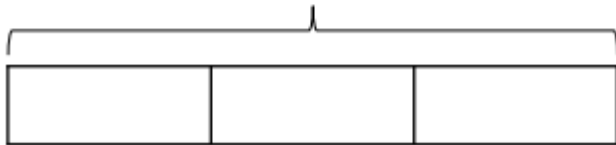
How many do they get each?

Which bar model would you use to represent this problem? Why?

24



24



Challenge 6:

Always, Sometimes, Never

- Multiples of 4 are also multiples of 8
- Multiples of 8 are also multiples of 4