Maths Mastery
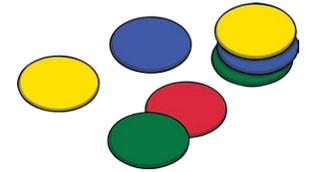# Count in Multiples
Challenge Cards

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1. Take 20 counters.

   Can you count them in 2s?

   Can you count them in 5s?

   Can you count them in 10s?

   Investigate other amounts of counters that you can count exactly in 2s, 5s and 10s without any remainders.

   What do you notice?

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2. How many pencils are there?

   Can you think of different ways to count them?

   Explain your thinking.
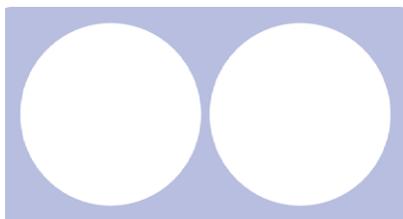
5 Colouring Pencils

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3. There are 2 gloves for each coat. How many gloves will there be if there are 9 coats?

   Can you find a way to prove your answer?

4. When you count in 2s, you never say an odd number.
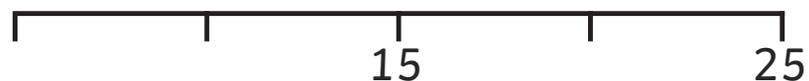
Do you think this is correct?

Give a reason for your answer.

5. Decide if these sentences are true or false.

- If I count in multiples of **2** I will say an odd number.

- If I count in multiples of **5** I will say an odd number.

- If I count in multiples of **10** I will say an odd number.

6. Fill in the gaps in these counting patterns.

10   12   18

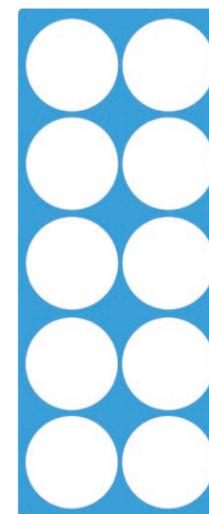80   70   40

        15   25
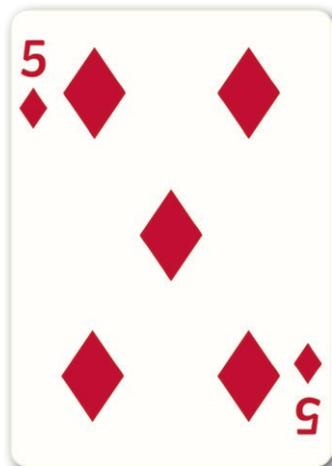
Can you make one up for a friend to solve?

7. **20** is only ever a multiple of **10**.

Do you think this is correct?

Can you explain your answer using equipment?

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8. Can you tell if a number is a multiple of 5 just by looking at it?

Explain your answer.

Answers

1. **Yes**, you can count them in 2s.
   Yes, you can count them in 5s.
   Yes, you can count them in 10s.
   All the possible amounts will be in multiples of 10.

   What do you notice? **All the possible amounts will be multiples of 10.**

2. **They can be counted in fives, or you could put two boxes together and count in tens.**

3. **There are 18 gloves. The children could draw the coats and gloves, use apparatus to represent the pairs, or simply write out the first 9 multiples of two.**

4. **If you count in multiples of two from an even number, you will never say an odd number. However, you could count in 2s starting on an odd number.**

5. **False – True – False**

6.

10	12	**14**	**16**	18

80	70	**80**	**90**	40

5	**10**	15	**20**	25
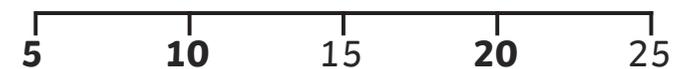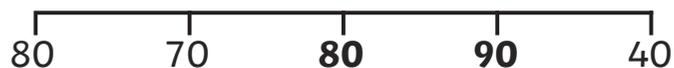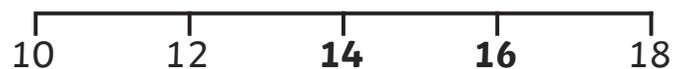
7. **No**, any multiple of ten is always a multiple of 2 and 5.

8. **A multiple of 5 always ends in a 5 or a 0.**