

Reasoning and Problem Solving – Tenths 1

New Curriculum Objectives:

Mathematics Year 3: (3F1a) [Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10](#)

Differentiation:

Developing Complete a pictorial representation of a tenth less than 1 by colouring in 2 or 3 blank shapes.

Secure Complete a pictorial representation of a tenth less than 1 by colouring in 4 or 5 blank shapes.

Mastery Complete a pictorial representation of a tenth greater than 1 by colouring in 5 or more blank shapes.

More [Reasoning and Problem Solving](#) Resources.

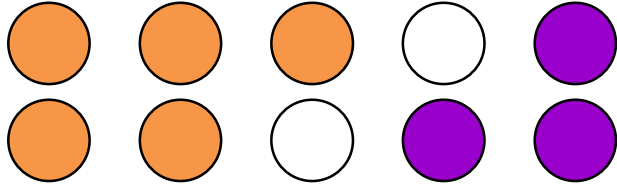
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Reasoning and Problem Solving – Tenths – Teaching Information

Reasoning and Problem Solving – Tenths 1

1. Pascal is colouring some shapes to represent a fraction.



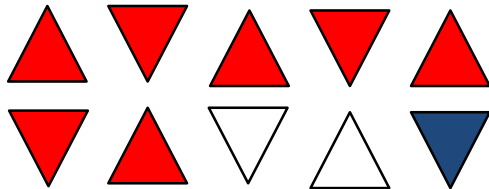
How should he colour the rest of the circles to show six tenths?

2. Carlie is colouring some shapes to represent a fraction.



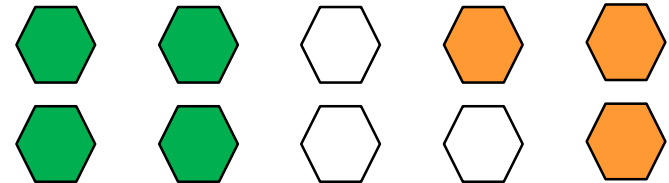
How should she colour the rest of the rectangles to show four tenths?

3. Leticia is colouring some shapes to represent a fraction.



How should she colour the rest of the triangles to show nine tenths?

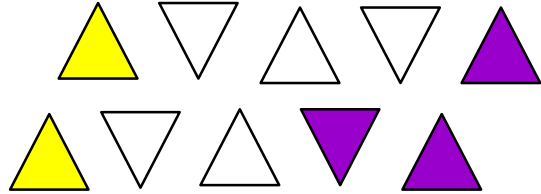
4. Dawson is colouring some shapes to represent a fraction.



How should he colour the rest of the hexagons to show five tenths?

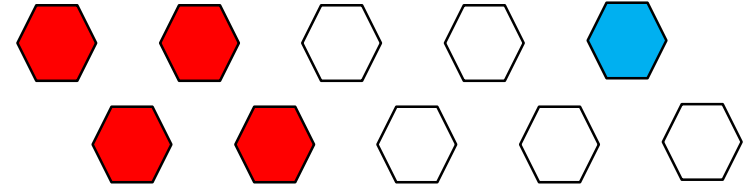
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5. Abdur is colouring some shapes to represent a fraction.



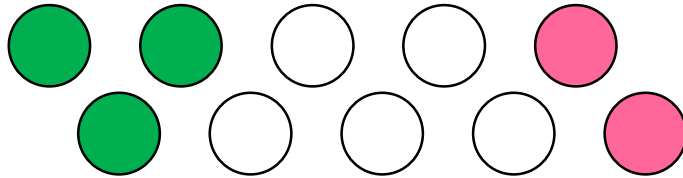
How should he colour the rest of the triangles to show four tenths?

6. Joy is colouring some shapes to represent a fraction.



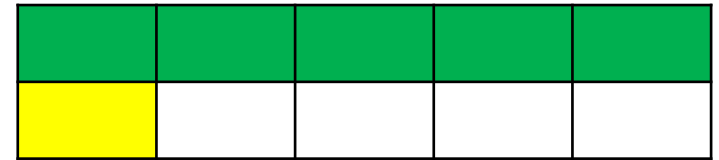
How should she colour the rest of the hexagons to show six tenths?

7. Esmee is colouring some shapes to represent a fraction.



How should she colour the rest of the circles to show seven tenths?

8. Lincoln is colouring some shapes to represent a fraction.



How should he colour the rest of the rectangles to show three tenths?

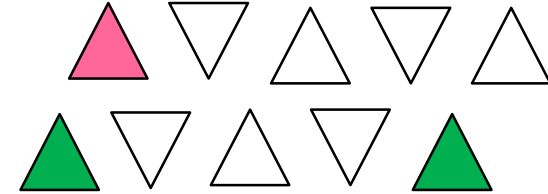
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9. Reiss is colouring some shapes to represent a fraction.



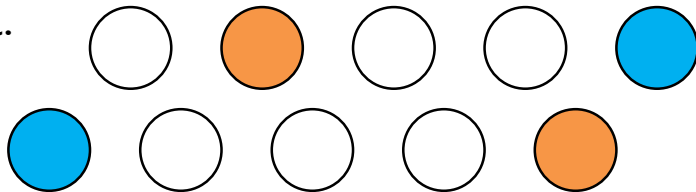
How should he colour the rest of the rectangles to show four tenths?

10. Annette is colouring some shapes to represent a fraction.



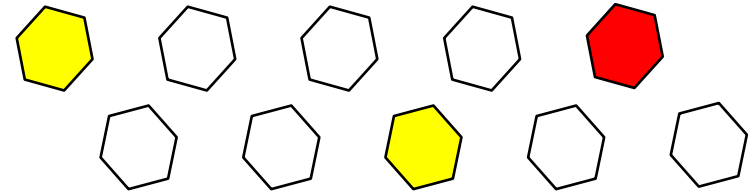
How should she colour the rest of the triangles to show five tenths?

11. Miriam is colouring some shapes to represent a fraction.



How should she colour the rest of the circles to show eight tenths?

12. Ayat is colouring some shapes to represent a fraction.



How should he colour the rest of the hexagons to show six tenths?

Reasoning and Problem Solving – Tenth 1

Developing

1. If he colours 1 orange and 1 purple, the orange circles will show six tenths.
2. If she colours 2 yellow and 1 blue, the yellow rectangles will show four tenths.
3. If she colours 2 red, the red triangles will show nine tenths.
4. If he colours 1 green and 2 orange, both colours will show five tenths.

Secure

5. If he colours 4 yellow and 1 purple, the purple triangles will show four tenths. If he colours 2 yellow and 3 purple, the yellow triangles will show four tenths.
6. If she colours 2 red and 3 blue, the red hexagons will show six tenths. If she colours all of the hexagons blue, they will show six tenths.
7. If she colours 4 green and 1 pink, the green circles will show seven tenths. If she colours all five circles pink, they will show seven tenths.
8. If he colours 2 green and 2 yellow, the yellow rectangles will show three tenths.

Mastery

9. If he colours 1 purple and 5 yellow, the purple rectangles will show four tenths. If he colours 3 purple and 3 yellow, the yellow rectangles will show four tenths.
10. If she colours 4 pink and 3 green, then both coloured triangles will show five tenths.
11. If she colours all six circles orange, they will show eight tenths. If she colours all six circles blue, they will show eight tenths.
12. If he colours 4 yellow and 3 red, the yellow hexagons will show six tenths. If he colours 2 yellow and 5 red, the red hexagons will show six tenths.