

# Y3 Fractions Challenge Cards

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## Fractions

1. Complete the fractions to make the calculations correct. How many different ways can you find to complete them?

$$\frac{\square}{8} + \frac{\square}{8} = 1$$

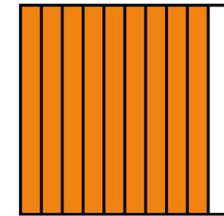
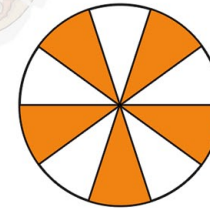
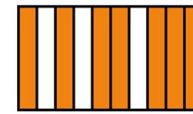
$$\frac{\square}{10} + \frac{\square}{10} = \frac{2}{10}$$

How do you know you have found all the possible answers?

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## Fractions

2. Put the pictures in order.

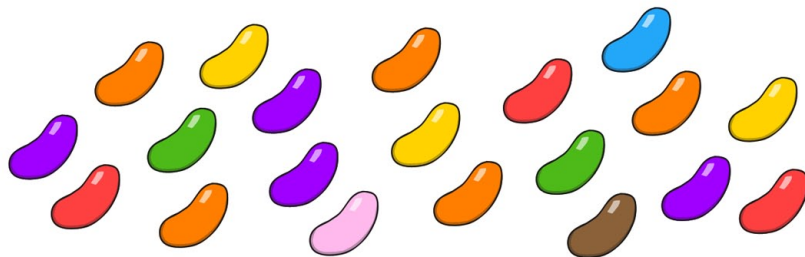


How did you decide what order to put them in?

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## Fractions

3. What fraction of the sweets are red? What fraction are green? Find the fraction of each colour.

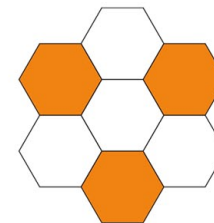


How can you use your knowledge of adding fractions to check your answer?

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## Fractions

4. What fraction is shown by each image?

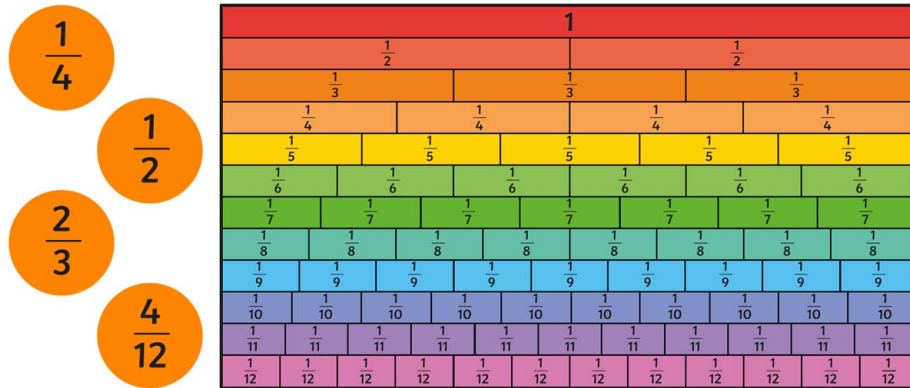


Could the images show any other fractions?

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## Fractions

5. Find fractions which are equivalent to these.



How many equivalent fractions can you find?

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## Fractions

6. James ate half of the sweets. Hardeep ate  $\frac{1}{4}$  of those left. Sam ate the rest.

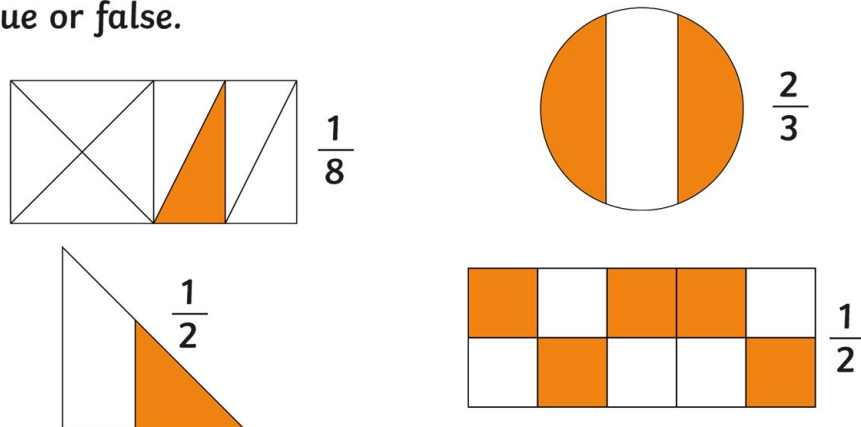


How many sweets did each boy eat?

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## Fractions

7. The images show the fractions written underneath. True or false.

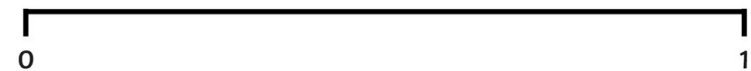


Can you explain your answers?

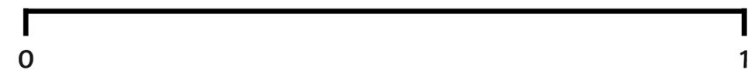
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## Fractions

8. Draw this number line. Show  $\frac{3}{6}$ ,  $\frac{1}{6}$  and  $\frac{4}{6}$ .



Draw this number line. Show  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{1}{3}$ .



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# Fractions Challenge Cards

1. Complete the fractions to make the calculations correct. How many different ways can you find to complete them?

$$\frac{0}{8} + \frac{8}{8} = 1$$

$$\frac{1}{8} + \frac{7}{8} = 1$$

$$\frac{2}{8} + \frac{6}{8} = 1$$

$$\frac{3}{8} + \frac{5}{8} = 1$$

$$\frac{4}{8} + \frac{4}{8} = 1$$

$$\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$$

$$\frac{9}{10} - \frac{7}{10} = \frac{2}{10}$$

$$\frac{8}{10} - \frac{6}{10} = \frac{2}{10}$$

$$\frac{7}{10} - \frac{5}{10} = \frac{2}{10}$$

$$\frac{6}{10} - \frac{4}{10} = \frac{2}{10}$$

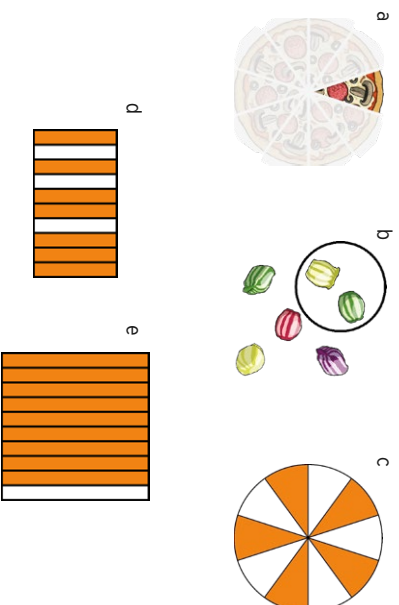
$$\frac{5}{10} - \frac{3}{10} = \frac{2}{10}$$

$$\frac{4}{10} - \frac{2}{10} = \frac{2}{10}$$

$$\frac{3}{10} - \frac{1}{10} = \frac{2}{10}$$

$$\frac{2}{10} - \frac{0}{10} = \frac{2}{10}$$

2. Put the pictures in order.



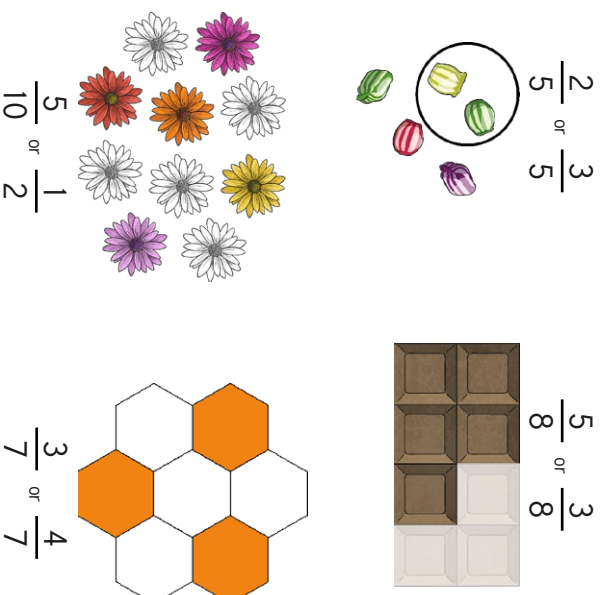
3. What fraction of the sweets are red? What fraction are green? Find the fraction of each colour.

Red -  $\frac{3}{20}$   
 Orange -  $\frac{5}{20}$   
 Blue -  $\frac{1}{20}$   
 Green -  $\frac{2}{20}$   
 Yellow -  $\frac{3}{20}$   
 Pink -  $\frac{1}{20}$   
 Violet -  $\frac{4}{20}$   
 Brown -  $\frac{1}{20}$

How can you use your knowledge of adding fractions to check your answer?

$$\frac{3}{20} + \frac{5}{20} + \frac{1}{20} + \frac{2}{20} + \frac{3}{20} + \frac{1}{20} + \frac{4}{20} + \frac{1}{20} = \frac{20}{20} = 1$$

4. What fraction is shown by each image?



5. Find fractions which are equivalent to these.

$$\frac{1}{4} = \frac{2}{8} \quad \frac{3}{12}$$

$$\frac{1}{2} = \frac{2}{4} \quad \frac{3}{6} \quad \frac{4}{8} \quad \frac{5}{10} \quad \frac{6}{12}$$

$$\frac{2}{3} = \frac{4}{6} \quad \frac{6}{9} \quad \frac{8}{12}$$

$$\frac{4}{12} = \frac{3}{9} \quad \frac{2}{6} \quad \frac{1}{3}$$

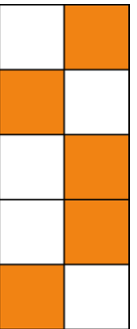
6. James ate half of the sweets. Hardeep ate  $\frac{1}{4}$  of those left. Sam ate the rest. How many sweets did each boy eat?

**James:** 8 sweets

**Hardeep:** 2 sweets

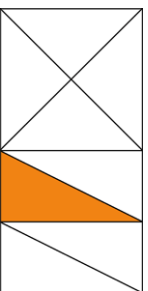
**Sam:** 6 sweets

7. The images show the fractions written underneath. True or false.



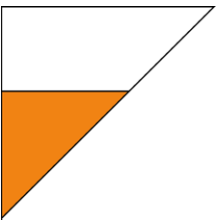
$$\frac{1}{2}$$

True



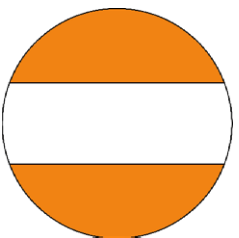
$$\frac{1}{8}$$

True



$$\frac{1}{2}$$

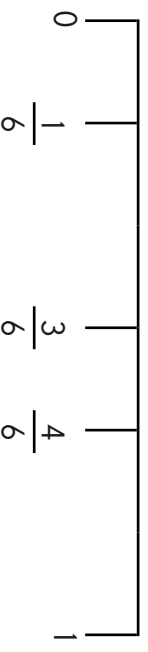
False



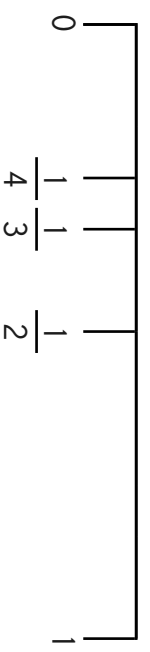
$$\frac{2}{3}$$

False

8. Draw this number line. Show  $\frac{3}{6}$ ,  $\frac{1}{6}$  and  $\frac{4}{6}$ .



Draw this number line. Show  $\frac{1}{4}$ ,  $\frac{1}{3}$  and  $\frac{1}{2}$ .



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