Homework/Extension
Step 1: What is a Fraction?

National Curriculum Objectives:

Mathematics Year 4: (4F2) Recognise and show, using diagrams, families of common equivalent fractions

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Shade the shapes to represent the given unit fractions. All shapes left blank.
Expected Shade the shapes to represent the given fractions. Some shapes partially completed.
Greater Depth Shade the shapes to represent the given fractions. Some shapes partially completed and some use of equivalence where the denominator can be halved or doubled.

Questions 2, 5 and 8 (Varied Fluency)
Developing Match the representations to the number line that represents the same unit fraction.
Expected Match the representations to the number line that represents the same fraction.
Greater Depth Match the representations to the number line that represents the same fraction. Using some mixed objects and some use of equivalence where the denominator can be halved or doubled.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Explain which statement is correct for the unit fraction represented by the objects. Objects are the same shape but two different colours.
Expected Explain which statement is correct for the fraction represented by the objects. Objects are the same shape but two different colours.
Greater Depth Explain which statement is correct for the possible fractions represented by the mixed objects. Objects are of two different shapes and two different colours.
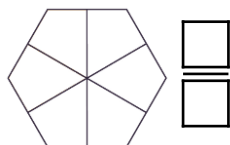
More Year 4 Fractions resources.

Did you like this resource? Don't forget to review it on our website.

What is a Fraction?
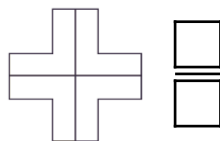
1. Shade the shapes to represent the fractions below.

A. **B.** **C.** **D.**

$$\frac{1}{3}$$ $$\frac{1}{4}$$ $$\frac{1}{6}$$ $$\frac{1}{9}$$
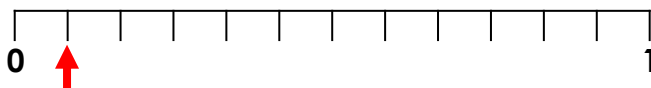
Write the correct fraction next to each shape.

2. Match the number lines to the representations.
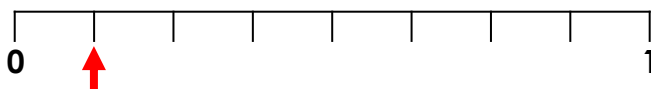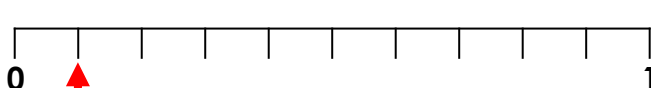
A. Out of 8 cats, 1 is ginger.

1. 0 1

B.

2. 0 1

C.

3. 0 1
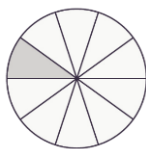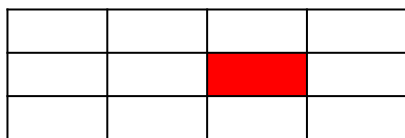
3. Ken and Cami are discussing the fraction represented below.

I think the faction is $\frac{1}{7}$.

Ken

I think the fraction is $\frac{1}{8}$.

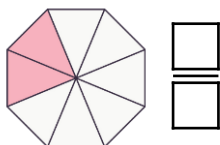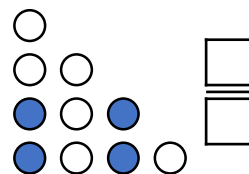**Cami**

Who is correct? Explain your reasoning.

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Homework/Extension – What is a Fraction? – Year 4 Developing
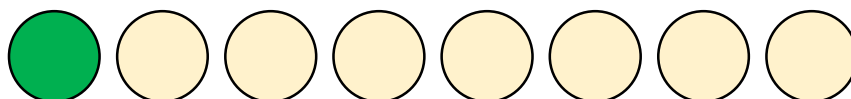
What is a Fraction?

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4. Shade and complete the shapes to represent the fractions below.

A.

 $\dfrac{\square}{\square}$

B.

 $\dfrac{\square}{\square}$

C.

 $\dfrac{\square}{\square}$

D.

 $\dfrac{\square}{\square}$

$$\dfrac{5}{12} \qquad \dfrac{6}{8} \qquad \dfrac{7}{10} \qquad \dfrac{8}{9}$$
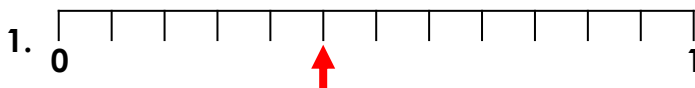
Write the correct fraction next to each shape.

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5. Match the number lines to the representations.

A. Out of 10 dogs, 7 are brown.

B.

C.

1.

2.

3.

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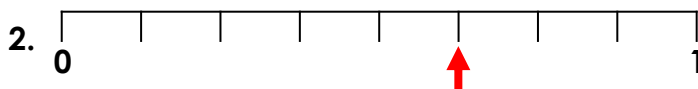
6. Sally and Boris are discussing the fraction represented below.

Boris: I think the faction is $\dfrac{7}{10}$.

Sally: I think the fraction is $\dfrac{3}{10}$.

Who is correct? Explain your reasoning.

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Homework/Extension – What is a Fraction? – Year 4 Expected

What is a Fraction?

7. Shade and complete the shapes to represent the equivalent fractions below.

A.

B.

C.

D.

$$\frac{7}{11}$$

$$\frac{4}{5}$$

$$\frac{1}{4}$$

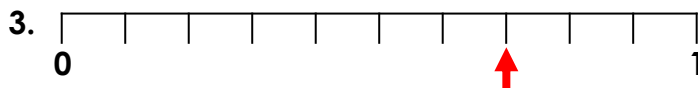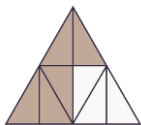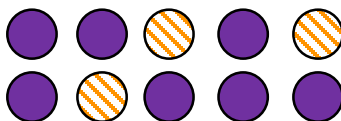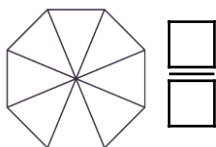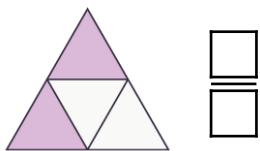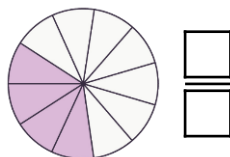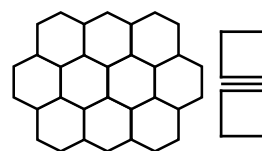$$\frac{6}{8}$$

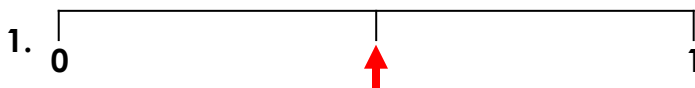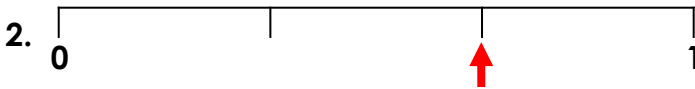**Write the correct fraction next to each shape.**

GD

VF
HW/Ext

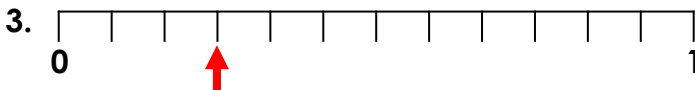**8. Match the number lines to the representations.**

A. **Nine cupcakes are vanilla and three are chocolate flavour.**

1. 0 ——— 1

B.

2. 0 ——— 1

C.

3. 0 ——— 1

GD
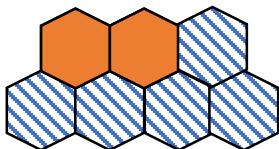
VF
HW/Ext

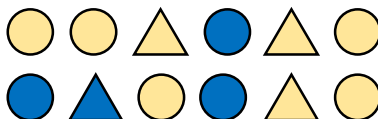**9. Josie and Eliza are discussing the fraction represented below.**

Josie: I think one possible fraction is $\frac{3}{5}$.

Eliza: I think another possible fraction is $\frac{8}{12}$.

Who is correct? Explain your reasoning.

GD

RPS
HW/Ext

Developing

1. A. $\frac{1}{6}$; B. $\frac{1}{9}$; C. $\frac{1}{4}$; D. $\frac{1}{3}$
2. A. 2; B. 3; C. 1
3. Cami is correct as the whole is 8 circles. 1 of them has been shaded a different colour showing $\frac{1}{8}$.

Expected

4. A. $\frac{6}{8}$; B. $\frac{8}{9}$; C. $\frac{5}{12}$; D. $\frac{7}{10}$
5. A. 3; B. 1; C. 2
6. Both are correct as the whole is 10 circles. 7 are one colour while 3 are another. The fraction could either be $\frac{3}{10}$ or $\frac{7}{10}$.

Greater Depth

7. A. $\frac{1}{4}$; B. $\frac{6}{8}$; C. $\frac{7}{11}$; D. $\frac{4}{5}$
8. A. 3; B. 2; C. 1
9. Eliza is correct if all of the shapes are the whole (12), 8 of the shapes are circles which would represent $\frac{8}{12}$.