# Varied Fluency
# Step 10: Equivalence of Half and Two Quarters

## National Curriculum Objectives:

Mathematics Year 2: (2F1a) Recognise, find, name and write fractions 1/3 , 1/4 , 2/4 and 3/4 of a length, shape, set of objects or quantity
Mathematics Year 2 : (2F2) Recognise the equivalence of 2/4 and 1/2

## Differentiation:

**Developing** Questions to support finding equivalence of half and a quarter of objects and shapes including circles and squares, using vertical and horizontal lines and using only images.

**Expected** Questions to support finding equivalence of half and a quarter of lengths, groups of objects and shapes including circles, triangles and quadrilaterals, using vertical horizontal and diagonal lines and using text and images.

**Greater Depth** Questions to support finding equivalence of half and a quarter of lengths, mixed objects and shapes including circles, triangles, quadrilaterals and polygons, using a mixture of vertical, horizontal and diagonal lines and using text and images arranged at random.

## More Year 2 Fractions resources

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

# Equivalence of Half and Two Quarters

**1a.** Circle $\frac{1}{2}$ of the apples.
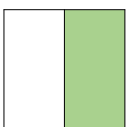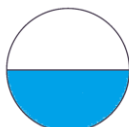
Circle $\frac{2}{4}$ of the apples.

VF

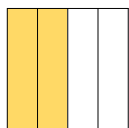**1b.** Circle $\frac{1}{2}$ of the pencils.
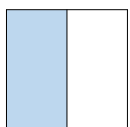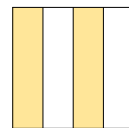
Circle $\frac{2}{4}$ of the pencils.
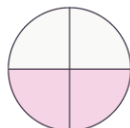
VF

**2a.** Match the shapes to their equivalent fraction.

VF

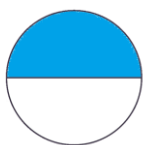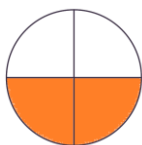**2b.** Match the shapes to their equivalent fraction.

VF

**3a.** True or false?

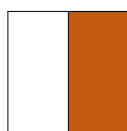$\frac{1}{2}$ of circle A is the same as $\frac{2}{4}$ of circle B.
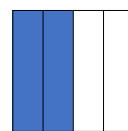
A.  B.

VF

**3b.** True or false?

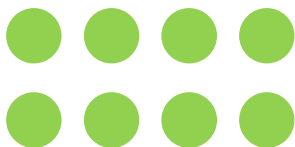$\frac{1}{2}$ of square A is the same as $\frac{2}{4}$ of square B.

A.  B.

VF

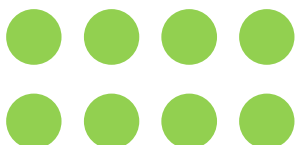**4a.** Use the counters to complete the statements.
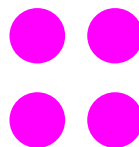
$\frac{1}{2}$ of     is ☐

$\frac{2}{4}$ of     is ☐
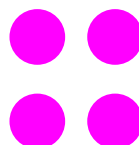
VF

**4b.** Use the counters to complete the statements.

$\frac{1}{2}$ of     is ☐

$\frac{2}{4}$ of     is ☐

VF

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Varied Fluency – Equivalence of Half and Two Quarters – Year 2 Developing
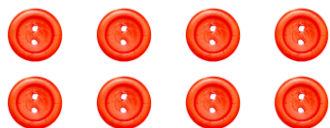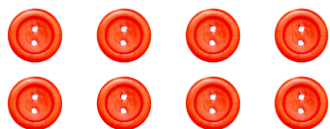
# Equivalence of Half and Two Quarters

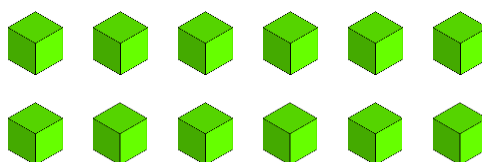## Equivalence of Half and Two Quarters

**5a.** Circle $\frac{1}{2}$ of the buttons.

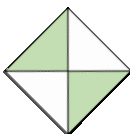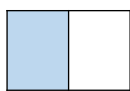Circle $\frac{2}{4}$ of the buttons.

E    VF
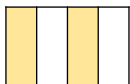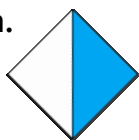
**5b.** Circle $\frac{1}{2}$ of the blocks.
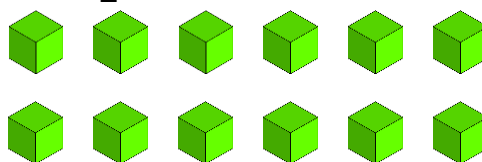
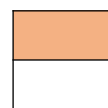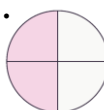Circle $\frac{2}{4}$ of the blocks.

E    VF

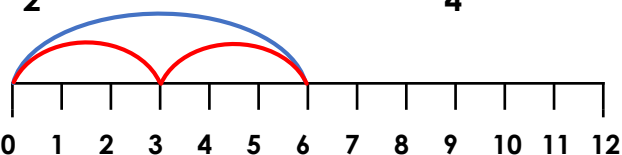**6a.** Match the shapes to their equivalent fraction.

E    VF

**6b.** Match the shapes to their equivalent fraction.

E    VF

**7a.** True or false?

$\frac{1}{2}$ of 12cm is the same as $\frac{2}{4}$ of 12 cm.

0  1  2  3  4  5  6  7  8  9  10  11  12

E    VF

**7b.** True or false?

$\frac{1}{2}$ of 16cm is the same as $\frac{2}{4}$ of 16 cm.

0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16

E    VF

**8a.** Use the counters to complete the statements.

$\frac{1}{2}$ of 16 is ☐

$\frac{2}{4}$ of 16 is ☐

E    VF

**8b.** Use the counters to complete the statements.

$\frac{1}{2}$ of 20 is ☐

$\frac{2}{4}$ of 20 is ☐

E    VF

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Varied Fluency – Equivalence of Half and Two Quarters – Year 2 Expected

**9a.** Circle $\dfrac{1}{2}$ of the gems.



Circle $\dfrac{2}{4}$ of the gems.



GD · VF

**9b.** Circle $\dfrac{1}{2}$ of the pencils.



Circle $\dfrac{2}{4}$ of the pencils.



GD · VF

**10a.** Match the shapes to their equivalent fraction.



GD · VF

**10b.** Match the shapes to their equivalent fraction.
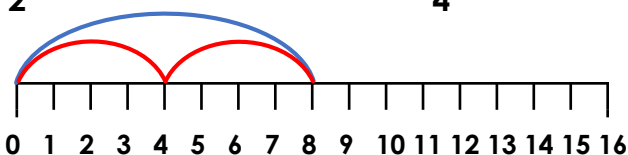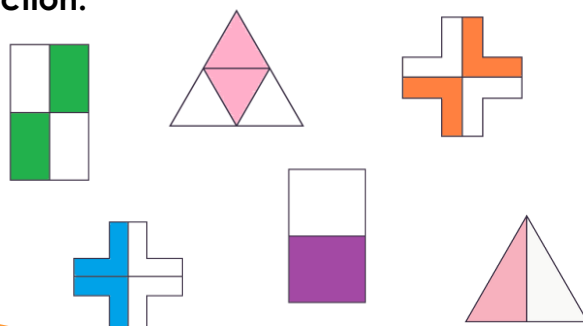


GD · VF

**11a. True or false?**

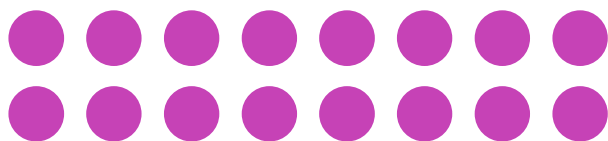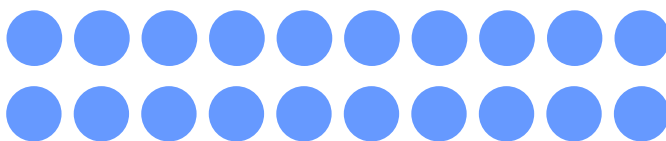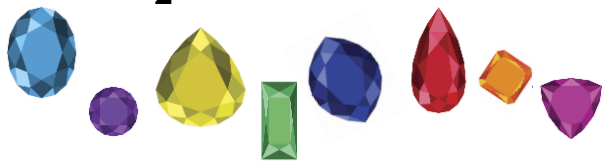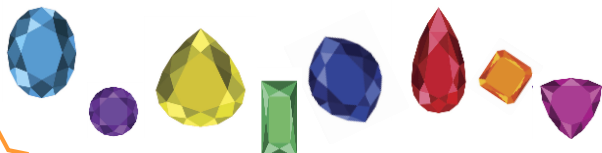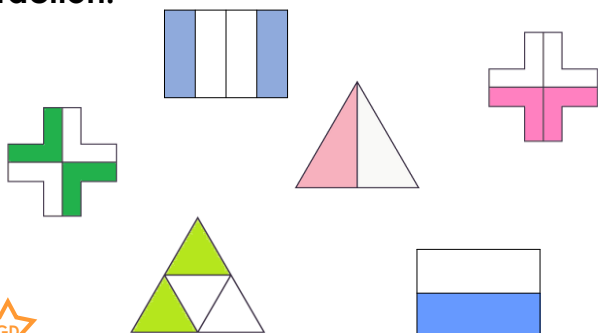$\dfrac{1}{2}$ of 20cm is the same as $\dfrac{2}{4}$ of 20cm.
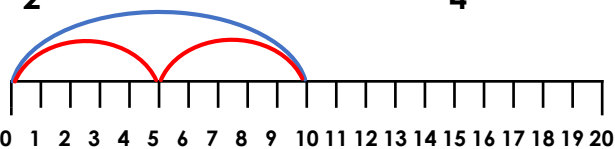


GD · VF

**11b. True or false?**

$\dfrac{1}{2}$ of 18cm is the same as $\dfrac{2}{4}$ of 18cm.
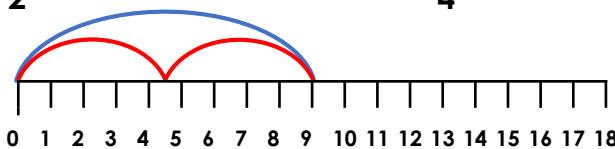


GD · VF

**12a.** Use the counters to complete the statements.



$\dfrac{1}{2}$ of 24 is ☐

$\dfrac{2}{4}$ of 24 is ☐

GD · VF

**12b.** Use the counters to complete the statements.



$\dfrac{1}{2}$ of 28 is ☐

$\dfrac{2}{4}$ of 28 is ☐

GD · VF

**Varied Fluency – Equivalence of Half and Two Quarters – Year 2 Greater Depth**

## Varied Fluency
## Equivalence of Half and Two Quarters

### Developing
**1a.** 2 apples circled for both questions.
**2a.** Shapes should be matched to the same shape, e.g. square to square.
**3a.** True
**4a.** 4

### Expected
**5a.** 4 buttons circled for both questions.
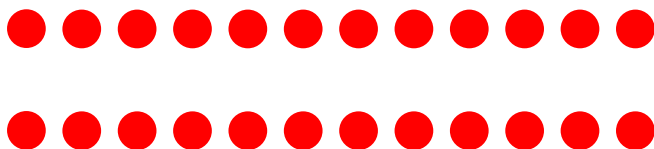**6a.** Shapes should be matched to the same shape, e.g triangle to triangle.
**7a.** True
**8a.** 8

### Greater Depth
**9a.** 4 gems circled.
**10a.** The same shapes should be matched together, e.g cross to cross.
**11a.** True
**12a.** 12

### Developing
**1b.** 4 pencils circled for both questions.
**2b.** Shapes should be matched to the same shape, e.g. circle to circle.
**3b.** True
**4b.** 2

### Expected
**5b.** 6 blocks circled for both questions.
**6b.** Shapes should be matched to the same shape, e.g circle to circle.
**7b.** True
**8b.** 10

### Greater Depth
**9b.** 4 pencils circled.
**10b.** The same shapes should be matched together, e.g triangle to triangle.
**11b.** True
**12b.** 14

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