Homework/Extension
Step 5: Find a Quarter

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: (2F1b) Write simple fractions for example, 1/2 of 6 = 3

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match the fractions to the correct answer. Pictorial support provided with the use of a dividing line to show the quarters.
Expected Match the fractions to the correct answer. Scaffolding provided.
Greater Depth Fill in the blanks and match the fractions to the correct answer.

Questions 2, 5 and 8 (Varied Fluency)
Developing Complete the bar models and the corresponding statements. Scaffolding and pictorial support provided.
Expected Complete the bar models and the corresponding statements. Scaffolding provided.
Greater Depth Complete the bar models and the corresponding statements. No scaffolding provided.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Using the given instructions, explain which cake has been decorated. Pictorial support provided with the use of a dividing line to show the quarters.
Expected Using the given instructions, explain which cake has been decorated. Pictorial support provided.
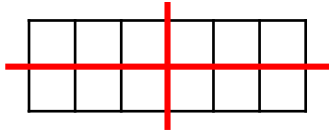**Greater Depth** Using the given instructions, explain which cake has been decorated. No pictorial support provided.

More Year 2 Fractions resources.

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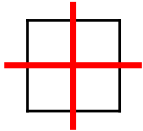
Find a Quarter

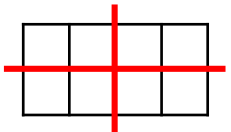1. Match the fractions to the correct answer. Shade $\frac{1}{4}$ of the shapes to help you.

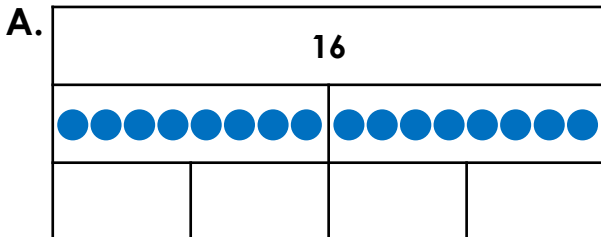$\frac{1}{4}$ of 12 is
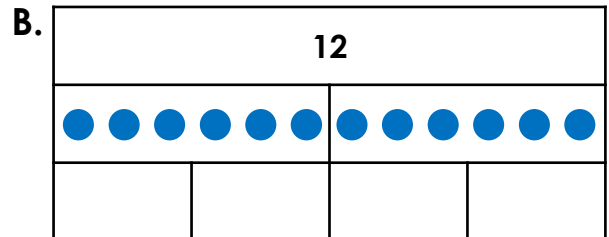
$\frac{1}{4}$ of 4 is

$\frac{1}{4}$ of 8 is

1

2

3

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2. Complete the bar models and the corresponding statements.

A.

16

B.

12

$\frac{1}{2}$ of 16 is

$\frac{1}{4}$ of 16 is

$\frac{1}{2}$ of 12 is

$\frac{1}{4}$ of 12 is

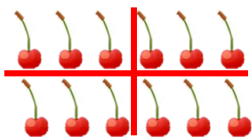3. Kiri followed the instructions below to decorate a birthday cake. Which cake did she make? Explain your answer.

You will need:
1. Number of candles: $\frac{1}{4}$ of 16

2. Number of cherries: $\frac{1}{4}$ of 12

A.

B.

Find a Quarter

4. Match the fractions to the correct answer. Shade $\frac{1}{4}$ of the shapes to help you.
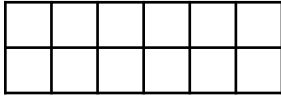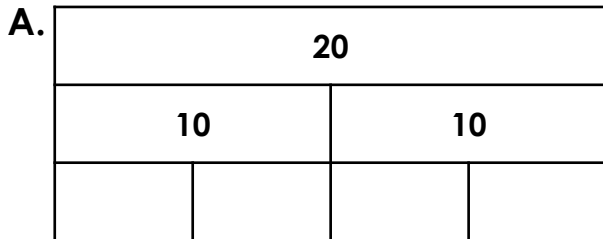
$\frac{1}{4}$ of 16 is
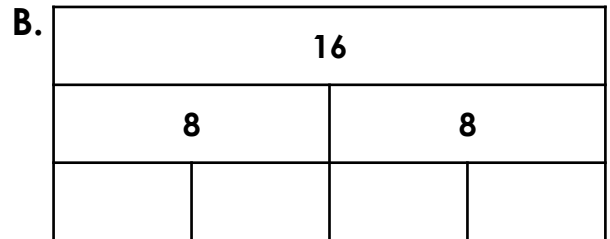
$\frac{1}{4}$ of 8 is

$\frac{1}{4}$ of 12 is

3

2

4

5. Complete the bar models and the corresponding statements.

A.

20	
10	10

B.

16	
8	8

$\frac{1}{2}$ of ☐ is ☐

$\frac{1}{4}$ of 20 is ☐

$\frac{1}{2}$ of ☐ is ☐

$\frac{1}{4}$ of 16 is ☐

6. Tom followed the instructions below to decorate a birthday cake. Which cake did he make? Explain your answer.
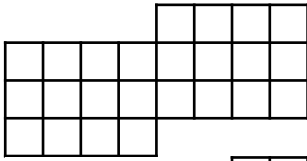
You will need:

1. Number of candles: $\frac{1}{4}$ of 20

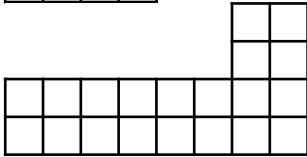2. Number of stars: $\frac{1}{4}$ of 16

A.

B.

C.

Find a Quarter

7. Fill in the blanks and match the fractions to the correct answer. Shade $\frac{1}{4}$ of the shapes to help you.
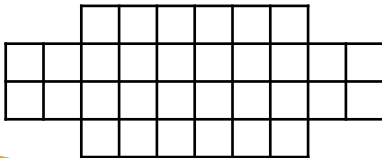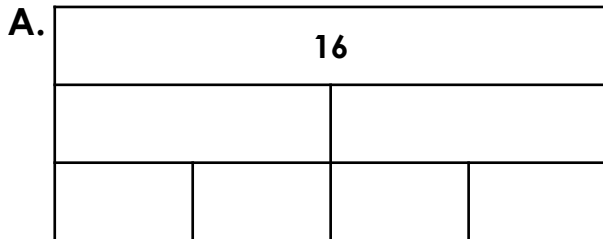
$\frac{1}{4}$ of 24 is
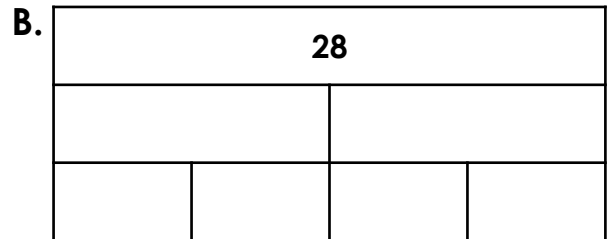
$\frac{1}{4}$ of ___ is

$\frac{1}{4}$ of 32 is

8

___

5

8. Complete the bar models and the corresponding statements.

A.

16

B.

28

$\frac{1}{2}$ of ⬜ is ⬜

$\frac{1}{4}$ of ⬜ is ⬜

$\frac{1}{2}$ of ⬜ is ⬜

$\frac{1}{4}$ of ⬜ is ⬜

9. Kathryn followed the instructions below to decorate a birthday cake. Which cake did she make? Explain your answer.

You will need:

1. Number of candles: $\frac{1}{4}$ of 20

2. Number of stars: $\frac{1}{4}$ of 28

3. Number of layers: $\frac{1}{4}$ of 12

A.

B.

C.

Developing

1. $\frac{1}{4}$ of 12 = 3; $\frac{1}{4}$ of 4 = 1; $\frac{1}{4}$ of 8 = 2

2. A. $\frac{1}{2}$ of 16 is 8; $\frac{1}{4}$ of 16 is 4; B. $\frac{1}{2}$ of 12 is 6; $\frac{1}{4}$ of 12 is 3

3. Kiri decorated cake B because one quarter of 16 candles is 4 candles and one quarter of 12 cherries is 3 cherries.

Expected

4. $\frac{1}{4}$ of 16 = 4; $\frac{1}{4}$ of 8 = 2; $\frac{1}{4}$ of 12 = 3

5. A. $\frac{1}{2}$ of 20 is 10; $\frac{1}{4}$ of 20 is 5; B. $\frac{1}{2}$ of 16 is 8; $\frac{1}{4}$ of 16 is 4

6. Tom decorated cake A because one quarter of 20 candles is 5 candles and one quarter of 16 stars is 4 stars.

Greater Depth

7. $\frac{1}{4}$ of 24 = <u>6</u>; $\frac{1}{4}$ of <u>20</u> = 5; $\frac{1}{4}$ of 32 = 8

8. A. $\frac{1}{2}$ of 16 is 8; $\frac{1}{4}$ of 16 is 4; B. $\frac{1}{2}$ of 28 is 14; $\frac{1}{4}$ of 28 is 7

9. Kathryn decorated cake C because one quarter of 20 candles is 5 candles, one quarter of 28 stars is 7 stars and one quarter of 12 layers is 3 layers.