Homework/Extension
Step 19: Fraction of an Amount

National Curriculum Objectives:

Mathematics Year 5: (5C8c) Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Tick the calculation that matches the image. Includes unit fractions only.
Expected Tick the calculation that matches the image. Includes non-unit fractions in their simplest form and units of measure.
Greater Depth Tick the calculation that matches the image. Includes improper fractions and units of measure with conversions.

Questions 2, 5 and 8 (Varied Fluency)
Developing Complete the calculation and bar model to represent the image provided. Includes unit fractions only.
Expected Complete the calculation and bar model to represent the image provided. Includes non-unit fractions given in their simplest form. Pictorial support provided.
Greater Depth Complete the calculations. Includes improper fractions. Some pictorial support provided.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Prove whether or not a statement is correct and explain why. Includes unit fractions only. Pictorial support provided.
Expected Prove whether or not a statement is correct and explain why. Includes non-unit fractions in their simplest form.
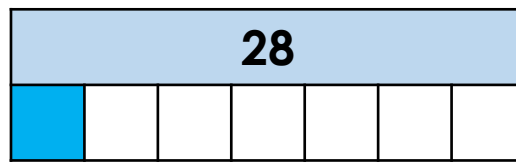**Greater Depth** Prove whether or not a statement is correct and explain why. Includes improper fractions and units of measure.

More Year 5 Fractions resources.

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

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Fraction of an Amount

1. Tick the calculation which matches the image below.

28

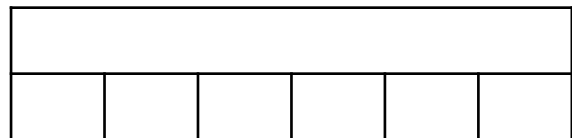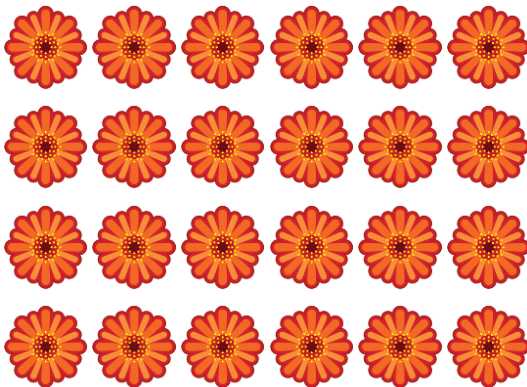A. $\frac{1}{6}$ of 28 = 4 ☐   B. $\frac{1}{7}$ of 28 = 7 ☐

C. $\frac{1}{7}$ of 28 = 4 ☐   D. $\frac{1}{7}$ of 28 = 2 ☐

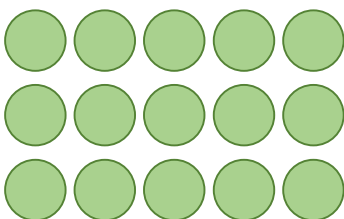**2. Complete the calculation and bar model for the image below.**

$\frac{1}{6}$ of ☐ is ☐

3. Jordan and Kara are sharing 15 counters.

I have $\frac{1}{5}$ of the counters.

Jordan

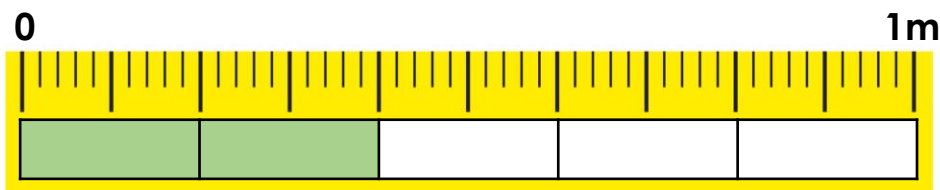I have $\frac{1}{3}$ of the counters.

Kara

Jordan thinks he has more counters than Kara. Is he correct? Explain your answer.

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Homework/Extension – Fraction of an Amount – Year 5 Developing

Fraction of an Amount

4. Tick the calculation which matches the image below.
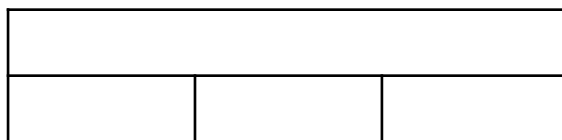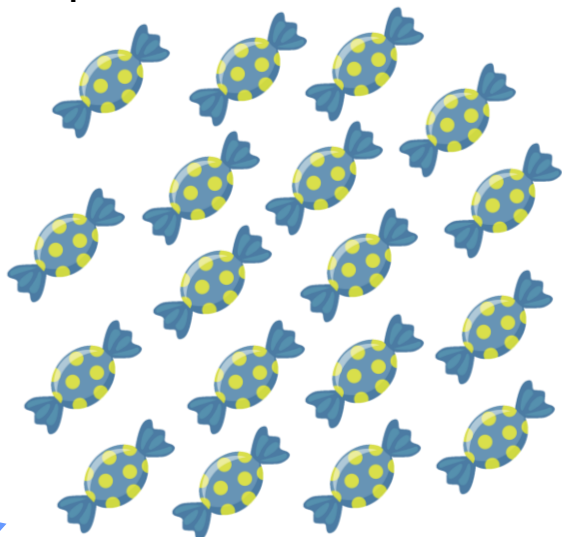
0 ——————————————————————————— 1m

A. $\frac{2}{5}$ of 1m = 30cm ☐ B. $\frac{2}{5}$ of 1m = 40cm ☐

C. $\frac{2}{10}$ of 1m = 20cm ☐ D. $\frac{4}{10}$ of 1m = 20cm ☐

5. Complete the calculation and bar model for the image below.

$\frac{2}{3}$ of ☐ is ☐

6. Mason and Lara are sharing a jar of 24 cookies.

I have eaten $\frac{3}{8}$ of the cookies.
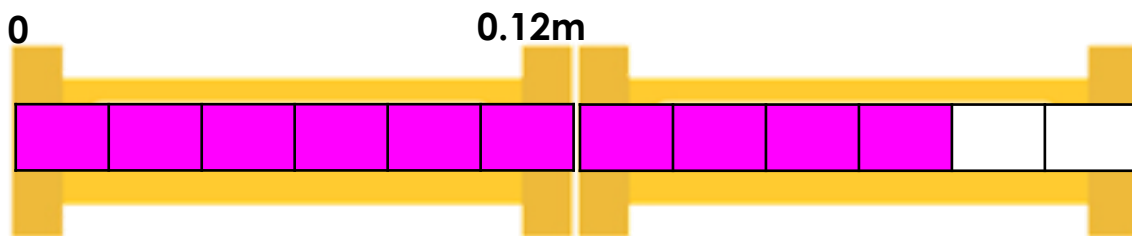
Lara

I have eaten $\frac{5}{8}$ of the cookies.

Mason

Mason thinks that he has eaten 4 more cookies than Lara. Is he correct? Explain your answer.

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Homework/Extension – Fraction of an Amount – Year 5 Expected

Fraction of an Amount

7. Tick the calculation which matches the image below.

0   0.12m

A. $\frac{11}{6}$ of 0.12m = 8cm ☐   B. $\frac{10}{6}$ of 0.12m = 12cm ☐

C. $\frac{4}{6}$ of 0.12m = 20cm ☐   D. $\frac{10}{6}$ of 0.12m = 20cm ☐

VF
HW/Ext

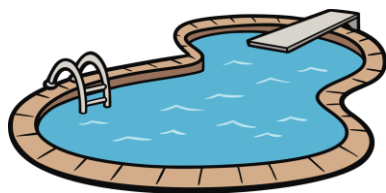**8. Complete the calculations for the image below.**

12 apples

$\frac{14}{4}$ of ☐ is ☐

$\frac{\square}{6}$ of ☐ is 22

VF
HW/Ext

9. Quinn and Jacob are swimming lengths of a 36m long pool.

I have swum $\frac{8}{6}$ lengths of the pool.

Jacob

I have swum $\frac{15}{9}$ lengths of the pool.

Quinn

Quinn thinks that she did 15m more than Jacob. Is she correct? Explain your answer.

RPS
HW/Ext

Homework/Extension – Fraction of an Amount – Year 5 Greater Depth

Developing

1. **C**

2. $\dfrac{1}{6}$ **of 24 is 4**

	24				
4	4	4	4	4	4

3. **Jordan is not correct. He has 3 counters and Kara has 5 counters, so Kara has more counters than Jordan.**

Expected

4. **B**

5. $\dfrac{2}{3}$ **of 18 is 12**

	18	
3	3	3

6. **Mason is not correct. He has eaten 15 cookies and Lara has eaten 9 cookies, so Mason has eaten 6 more cookies than Lara.**

Greater Depth

7. **D**

8. $\dfrac{14}{4}$ **of 12 is 42;** $\dfrac{11}{6}$ **of 12 is 22**

9. **Quinn is not correct. She swam 60m (1 length and 24m) and Jacob swam 48m (1 length and 12m), so Quinn swam 12m more than Jacob.**