Relating Percent and Fraction Amounts

NAME:

M a t h
PATHWAYS&PITFALLS

Purpose

To understand how to use percents to name fraction amounts that are less than 1
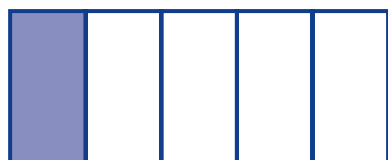
Math Words

percent   Percent is another way to write a fraction or a decimal amount. It compares an amount to 1 unit and is based on hundredths.

one unit   There are many ways to write one unit, such as 100%, 5/5, 1.0, or 1000/1000.

Starter Problem

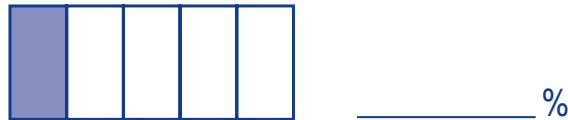This diagram shows that $\frac{1}{5}$ of a school is painted. What percent is painted?

_____ %

NAME:

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_____ %

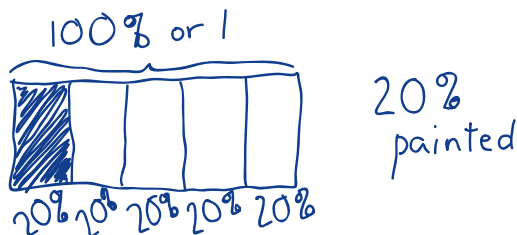## Student Thinking

Angela

If they painted the whole school it would be 100%. So $\frac{1}{5}$ is the same as 20% painted.

100% or 1

20% painted

20% 20% 20% 20% 20%

OK

Martin

$\frac{1}{5}$ is 15%. That's simple!

$$\frac{1}{5} = 15\%$$

Pitfall

Things to Remember

✳ ....

   ....

✳ ....

   ....

STOP

Our Turn

Write a lowest terms fraction and a percent for the amount of the drawing that is shaded.

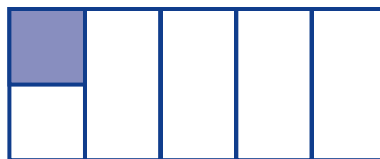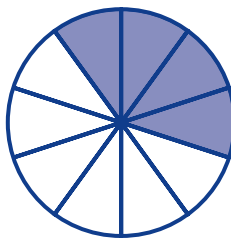1. _____ and _____ %

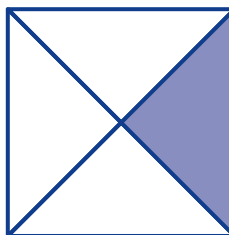2. _____ and _____ %

3. _____ and _____ %

NAME:

My Turn

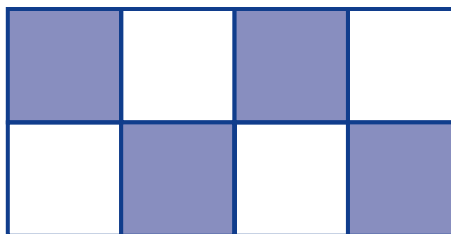Write a lowest terms fraction and a percent for the amount of the drawing that is shaded.

1. _____ and _____ %
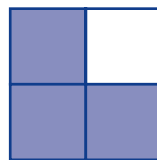
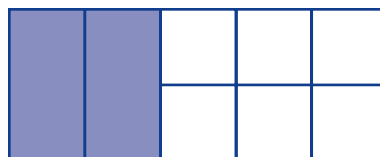2. _____ and _____ %

3. _____ and _____ %

NAME:

Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. What percent of the drawing is shaded?

   ○ 34%　　　○ 75%　　　○ $\frac{3}{4}$ %　　　○ not given
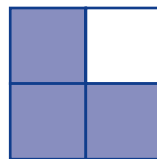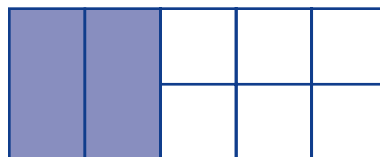
2. What percent of the drawing is shaded?

   ○ 20%　　　○ 26%　　　○ 40%　　　○ not given

Writing Task Mini Lesson

Explain why it is reasonable to say that about $\frac{1}{2}$ or 50% of this figure is shaded.

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Math Pathways & Pitfalls® ✳ Unit 6 ✳ Lesson 2