Edgenuity

Warm-Up | Using Equivalent Ratios to Find Percents

Lesson Question

Lesson Goals

Find the _____ of a number.

Use _____ ratios.

Words to Know

Fill in this table as you work through the lesson. You may also use the glossary to help you.

	in a percent problem, the first number in a ratio
	in a percent problem, the second number in a ratio; all of something
	having the same amount, value, area, volume, or force
	a table that shows the relationship between equivalent ratios

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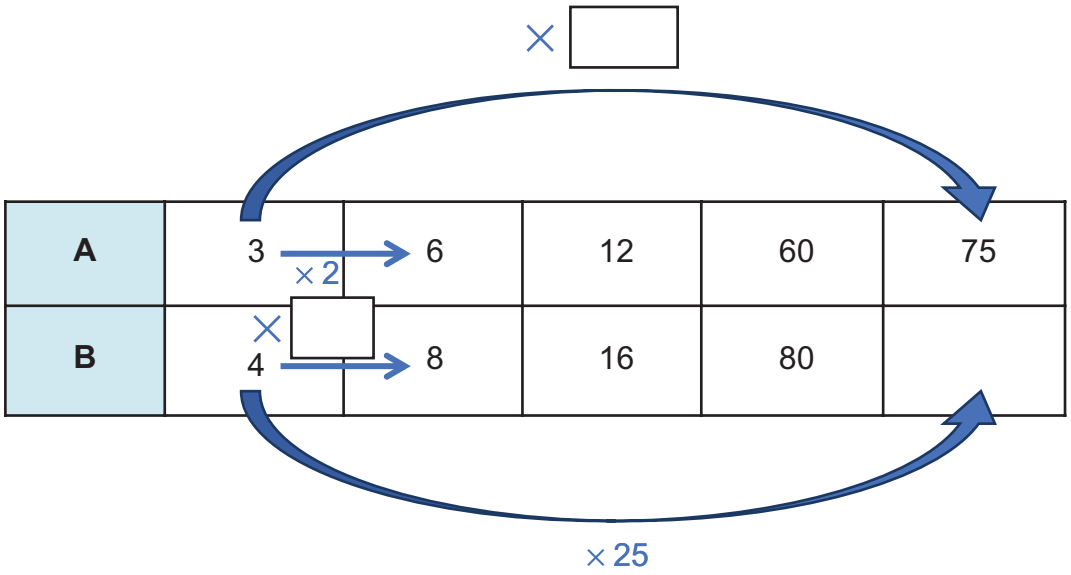
Reviewing Equivalent Ratios

The ratios in the **ratio table** are **equivalent**.

Find the missing value.



Instruction | Using Equivalent Ratios to Find Percents

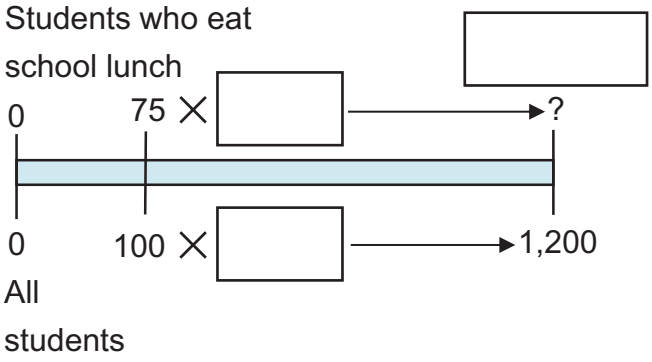
Slide 2

Using Equivalent Ratios to Find a Percent of a Number

75% of the 1,200 students at West Junior High eat a school lunch every day. Find the number of students who eat a school lunch.

$$\frac{\text{part}}{\text{whole}} = \frac{\square}{100}$$

$$\frac{75}{100} = \frac{\square}{1{,}200}$$



900 students eat a school lunch out of 1,200 students total.

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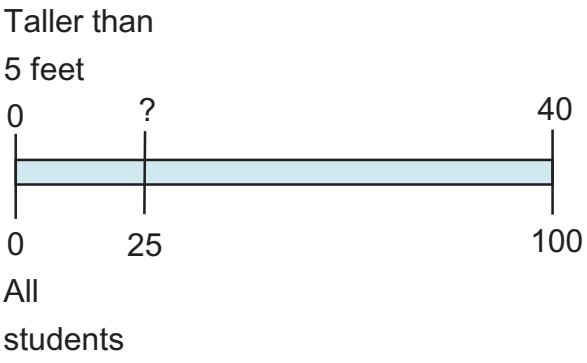
Using Equivalent Ratios to Solve for a Part

40% of the 25 students in Hector's class are more than 5 feet tall.

Find 40% of 25.

$$\frac{\square}{100} = \frac{5 \text{ ft. tall}}{\square}$$

$$\frac{40 \div 4}{100 \div \square} = \frac{\square}{25}$$



$\square$ of 25 = $\square$ students

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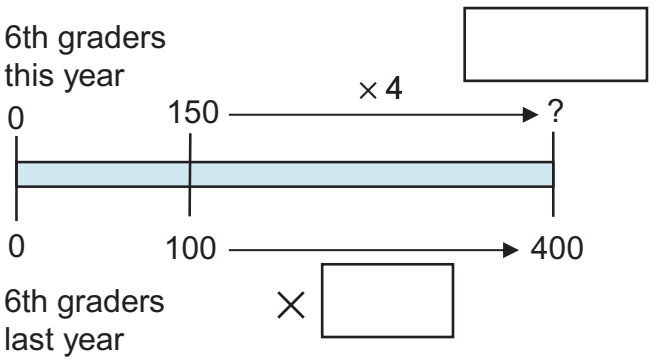
Slide 7

Solving Percents Greater Than 100%

The number of 6th graders attending Middlefield Science Academy this year is 150% of last year's total. If 400 6th graders attended Middlefield last year, how many attend this year?

Find 150% of 400.



$$\frac{\text{Part}}{\text{Whole}} = \frac{150 \times \square}{100 \times 4} = \frac{\square}{400}$$

600 students attend this year.

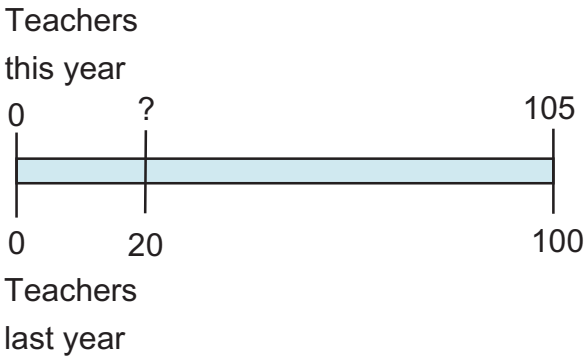
Slide 9

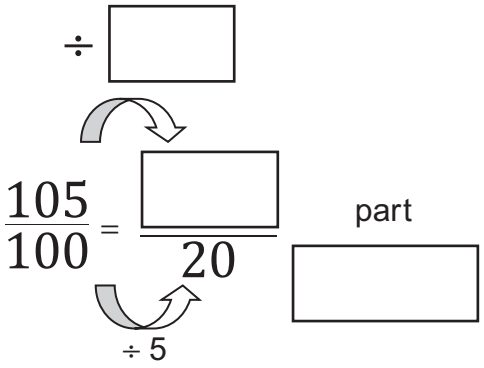
Using Equivalent Ratios to Solve

The number of teachers at South Town Middle School this year is 105% of last year's total. If 20 teachers worked at South Town last year, how many teach there this year?

Find 105% of 20.

In this problem, our part is larger than our whole.





105% of 20 = ☐ teachers

Summary | Using Equivalent Ratios to Find Percents

Lesson Question

How can you use equivalent ratios to find the percent of a number?

Answer

Use this space to write any questions or thoughts about this lesson.