7th Grade Math
Lesson: April 8th

Learning Topic:
Students will identify and use unit rates.

Let's Get Started:
Watch Video-
<u>What is a unit rate?</u>

Practice
Which statement below is an example of a **unit rate**?

Sam can make 12 pizzas in 2 hours.

Haiden can paint 2 classrooms in 1 hour.

Lily delivers 20 pies in 4 hours.

Dylan scored 45 points in 3 games.

Practice
Which statement below is an example of a unit rate?

Sam can make 12 pizzas in 2 hours.

Haiden can paint 2 classrooms in <u>1</u> hour.
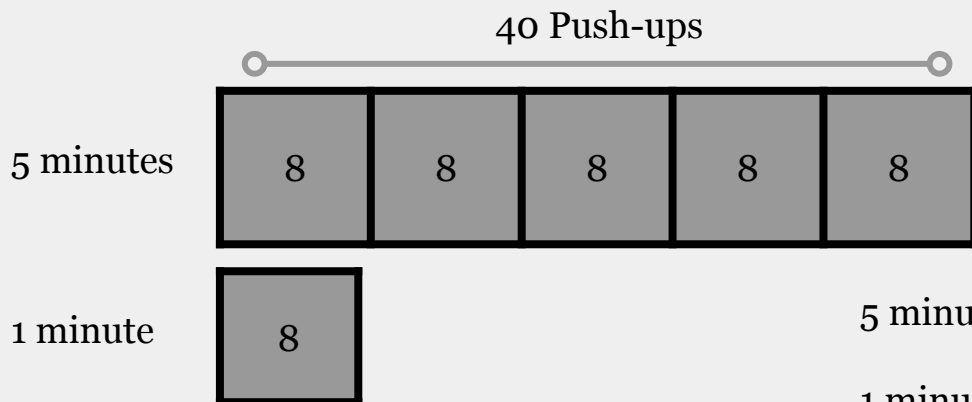
Lily delivers 20 pies in 4 hours.

Dylan scored 45 points in 3 games.

A unit rate compares a quantity, such as 2 classrooms, to 1 unit of another quantity like 1 hour.

Practice

Example #1 Teacher Help:

Brent can do 40 push-ups in 5 minutes. What is the rate at which Brent can do push-ups in 1 minute?

40 Push-ups

8	8	8	8	8

5 minutes

1 minute

8

A unit rate tells the rate in lowest terms or the amount for one unit.
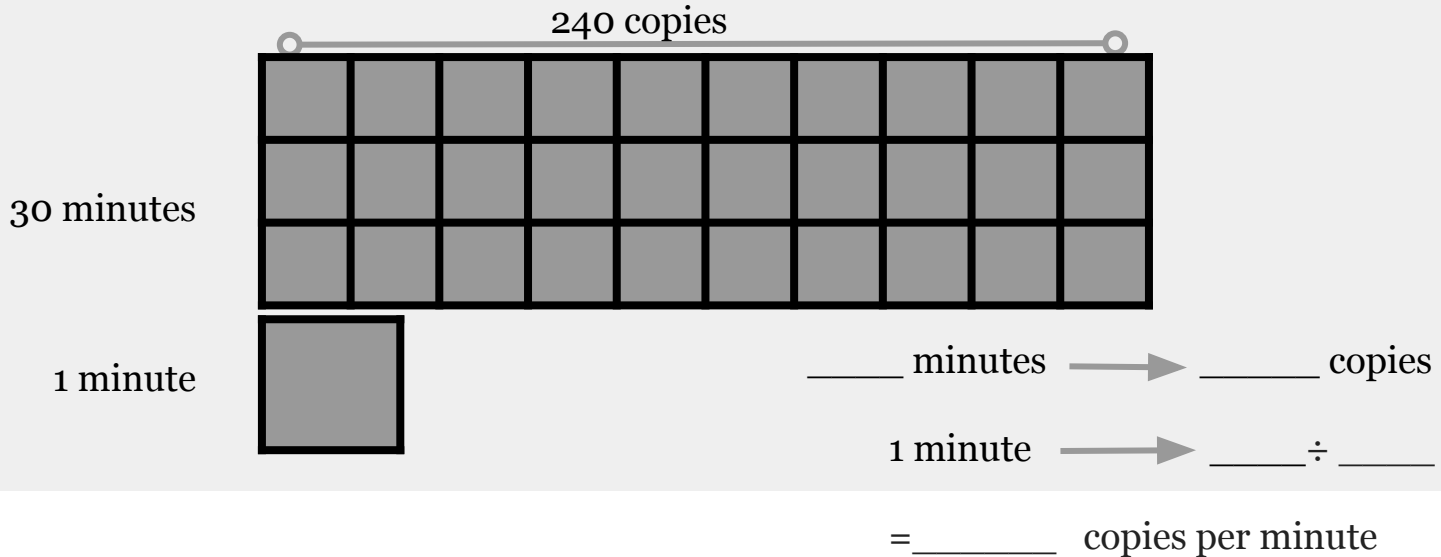
5 minutes → 40 push-ups
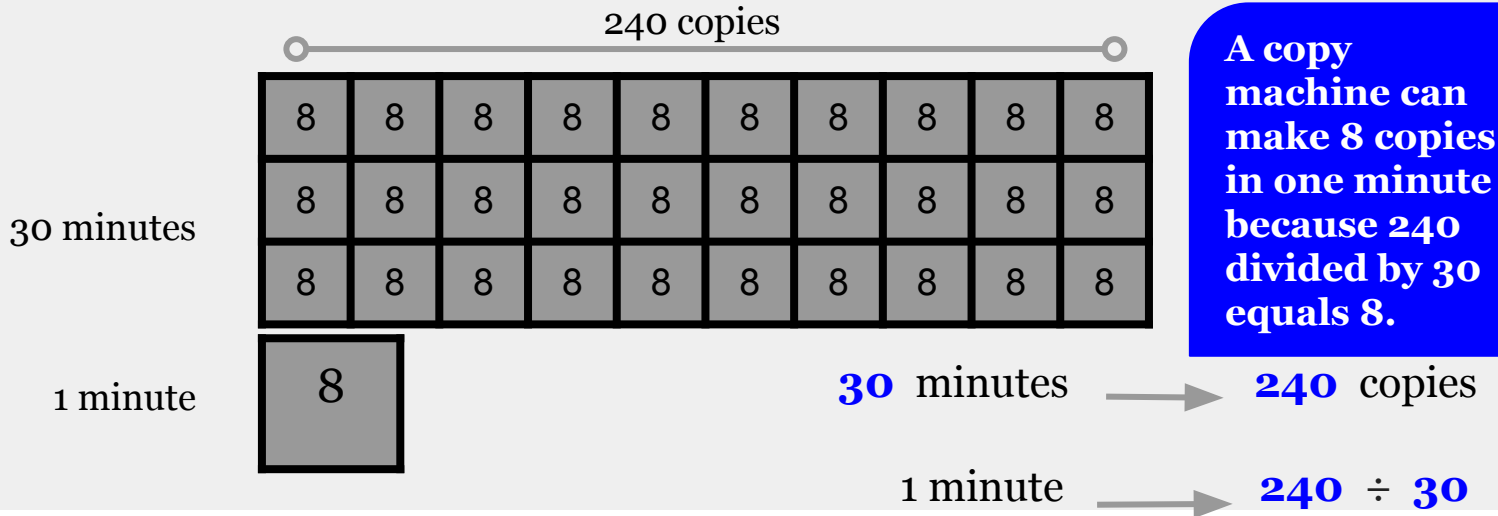
1 minute → 40 ÷ 5 = 8 push-ups

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Example #2 You Try:

A copy machine can print 240 copies in 30 minutes. What is the rate at which the machine prints the copies per minute?

240 copies

30 minutes

1 minute

_____ minutes ⟶ _____ copies

1 minute ⟶ _____ ÷ _____

=_____ copies per minute

Example #2 You Try:

A copy machine can print 240 copies in 30 minutes. What is the rate at which the machine prints the copies per minute.

240 copies

8	8	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8	8

30 minutes

1 minute

8

A copy machine can make 8 copies in one minute because 240 divided by 30 equals 8.

30 minutes ⟶ **240** copies

1 minute ⟶ **240 ÷ 30**

= **8** copies per minute

64 Books on 4 shelves   _____books per shelf

45 points in 3 games   _____points per game

3 videos in 15 minutes   _____min. per video

35 people at 7 tables   _____people per table

48 cookies in 4 batches   _____cookies per batch

64 Books on 4 shelves   ____**16**____ books per shelf

45 points in 3 games   ____**15**____ points per game

3 videos in 15 minutes   ____**5**____ min. per video

35 people at 7 tables   ____**5**____ people per table

48 cookies in 4 batches   ____**12**____ cookies per batch

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Additional Links

- ❏ More Practice with ThatQuiz.com

- ❏ Khan Academy Practice-There are 7 practice questions for review

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