LESSON MAKER PRO

Unit Switch

Turn larger units into smaller units.

GRADE 4 · 4.M.A.22.b

4.M.A.22.b "Solve measurement problems that require expressing measurements given in a larger unit in terms of a smaller unit."

NAME _____ DATE _____

MULTIPLY TO CONVERT

One large unit contains several smaller units. To change a measurement to smaller units, multiply by the number of smaller units in one large unit.

WORKED EXAMPLE

A kite string is 5 yards long. How many feet long is it? (1 yard = 3 feet.)

1. Each yard has 3 feet.
2. 5 × 3 = 15

Answer: 15 feet

PRACTICE 6 problems

1 Convert 4 feet to inches. (1 foot = 12 inches.)

ANSWER _____

2 Convert 6 hours to minutes. (1 hour = 60 minutes.)

ANSWER _____

3 Convert 8 meters to centimeters. (1 meter = 100 centimeters.)

ANSWER _____

4 Convert 9 pounds to ounces. (1 pound = 16 ounces.)

ANSWER _____

5 Convert 2 liters to milliliters. (1 liter = 1,000 milliliters.)

ANSWER _____

6 Convert 11 kilometers to meters. (1 kilometer = 1,000 meters.)

ANSWER _____

APPLY IT Show your work

1 A video game gives you 14 minutes to finish a level. How many seconds is that? (1 minute = 60 seconds.)

WORK SPACE

ANSWER _____

2 For a class game, your team has 10 feet of streamer. You use 38 inches to decorate a sign. How many inches of streamer are left? (1 foot = 12 inches.)

WORK SPACE

ANSWER _____

CHALLENGE One step up

A video club films for 2 hours 35 minutes on Saturday and 1 hour 45 minutes on Sunday. How many minutes does the club film in all? (1 hour = 60 minutes.)

WORK SPACE AND ANSWER

ANSWER KEY

Unit Switch

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Convert 4 feet to inches. (1 foot = 12 inches.)	**48 inches**
2	Convert 6 hours to minutes. (1 hour = 60 minutes.)	**360 minutes**
3	Convert 8 meters to centimeters. (1 meter = 100 centimeters.)	**800 centimeters**
4	Convert 9 pounds to ounces. (1 pound = 16 ounces.)	**144 ounces**
5	Convert 2 liters to milliliters. (1 liter = 1,000 milliliters.)	**2,000 milliliters**
6	Convert 11 kilometers to meters. (1 kilometer = 1,000 meters.)	**11,000 meters**

PART 2 · APPLY IT

1. **840 seconds** Multiply 14 × 60 to get 840 seconds.
2. **82 inches** Convert 10 feet to 120 inches, then subtract 38 inches.

CHALLENGE

260 minutes

Accept answers with or without a comma in numbers over 999. For the challenge, 2 × 60 + 35 + 1 × 60 + 45 = 260 minutes.