Name Date

# 6th Grade Benchmark for Topics 5 and 6

**Be sure to *show all of your thinking*, read each question carefully, and provide complete answers. Make sure to answer each questions fully.**

**Standards: 6.RP.A.3a, 6.RP.A.3, 6.RP.A.3c, 6.RP.A.3d, 6.RP.3b, 6.RP.A.1, 6.RP.A.2**

**1.** Which table represents the ratio 3 rotten apples for each 15 fresh apples? **(6.RP.A.3a)**

| **Rotten Apples** | 15 | 25 | 35 |
|---|---|---|---|
| **Fresh Apples** | 3 | 5 | 7 |

**A.**

| **Rotten Apples** | 15 | 25 | 35 |
|---|---|---|---|
| **Fresh Apples** | 3 | 6 | 9 |

**B.**

| **Rotten Apples** | 3 | 6 | 9 |
|---|---|---|---|
| **Fresh Apples** | 15 | 25 | 35 |

**C.**

| **Rotten Apples** | 3 | 5 | 7 |
|---|---|---|---|
| **Fresh Apples** | 15 | 25 | 35 |

**D.**

**2.** The bar diagram below represents the ratio of points scored by the home team and the visiting team in a basketball game. **(6.RP.A.3, 6.RP.A.1)**

How many points did the visiting team score if the home team scored 84 points?

3. A store sells packs of 3 mini-pizzas for $5. **(6.RP.A.3a, 6.RP.A.3b)**

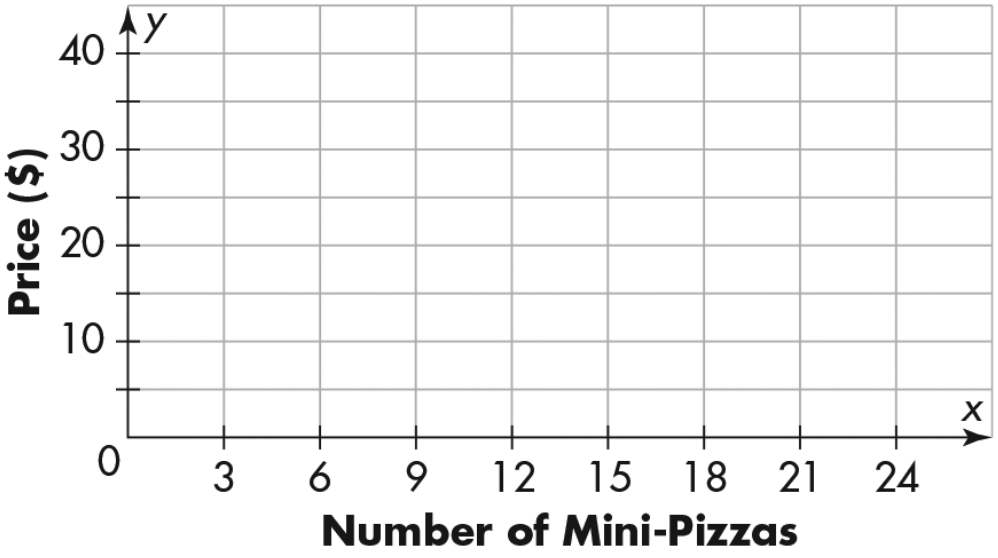
**Part A**

Complete the ratio table to show the price for up to 15 mini-pizzas.

| **Mini-Pizzas** | | 6 | | 12 | 15 |
|---|---|---|---|---|---|
| **Price ($)** | 5 | | 15 | | |

**Part B**

Plot the data from the table on the coordinate plane. Then draw a line to show the cost of more mini-pizzas.




**Part C**

How much would 25 mini-pizzas cost?

4. Steve sold 25 fruit baskets for a school fundraiser. Evie sold 6 fruit baskets for each 10 of the number of baskets that Steve sold. How many fruit baskets did Evie sell? **(6.RP.A.3c)**

5. Peter wants to buy a coat that costs $87 at full price. The coat is now on sale for 40% off. How much will Peter pay for the coat? **(6.RP.A.3c)**

6. Write one of the given measurements to match a measurement on the left with an equivalent measurement on the right. **(6.RP.A.3d)**

16 c | 16 qt | 24 fl oz

8 pt _____

4 gal _____

3 c _____

**7.** Kevin correctly answered 75% of 32 test questions. **(6.RP.A.3c)**
How many questions did Kevin answer correctly?

**8.** Select all of the measurements that are equivalent to 528 meters. **(6.RP.A.3d)**

- ☐ 52,800 cm
- ☐ 528,000 km
- ☐ 5,280 cm
- ☐ 528,000 mm
- ☐ 0.528 km

**9.** Sheila is biking at a constant speed. She travels 54 meters in 9 seconds. **(6.RP.A.3a)**

**Part A:**

Find the unit rate for Sheila's speed.

**Part B:**

How long would it take Sheila to travel 90 meters at this speed?

**10.** How may centimeters are in 5 inches? $1\ in = 2.54\ cm$ **(6.RP.A.3d)**

**11.** Mrs. Allan's car uses 8 gallons of gas for a 224-mile trip. Mrs. Owen's car uses 6 gallons of gas for a 210-mile trip. Which car gets the better gas mileage? **(6.RP.A.2, 6.RP.A.3b)**

**Part A:**

Find Mrs. Allan's miles per gallon.

**Part B:**

Find Mrs. Owen's miles per gallon.

**Part C:**

Whose car gets the better gas milage?