## Teacher Guide

### End-of-Year Test (pp. 1–9)
### Questions 1–20

### Part 1

Strategies may vary.

**1.** 38 seeds per packet × 4 packets = 152 seeds total

**2. A.** Possible estimate:
$1.00 × 4 packets = $4.00

**B.**
```
    92
  ×  4
  360
  +  8
$3.68
```

**C.** Possible response: My answer of $3.68 was a little less than my estimate of $4.00 so I know my answer is reasonable.

**D.**
```
  $5.00
− $3.68
  $1.32
```

**3. A.**



28 × 7 = 140 ft. + 56 ft. = 196 sq. ft.

**B.** 28 ft.+ 28 ft. + 7 ft. + 7 ft. =70 ft.

**4. A.** 32 ounces ÷ 6 ounces per cup = 5 cups with 2 ounces left over

**B.** Possible solution:
6 oz. + 6 oz. + 6 oz. + 6 oz. + 6 oz. = 30 oz. + 2 leftover oz. = 32 oz.
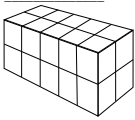
*Teacher Guide* - Page 1

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*Teacher Guide* - Page 2
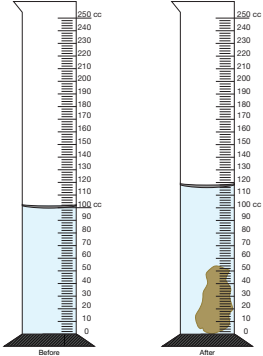
Name _____ Date _____

**Part 2**

Solve the following problems. You may use the tools you used in class such as a ruler, fraction circle pieces, individual clocks, centimeter connecting cubes, and the *Student Guide* Reference section.

5. **A.** Darius built a model of a rock with centimeter connecting cubes so he could estimate the rock's volume.

What is the volume of the cube model? _____

**B.** Darius used a graduated cylinder and the displacement method to find the rock's actual volume. He started by filling the cylinder with 100 cc of water. Then he slid the rock into the cylinder. Use the pictures to find the volume of the rock.

Assessment Master         TG · Grade 3 · Unit 13 · Lesson 10    3
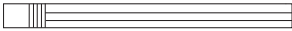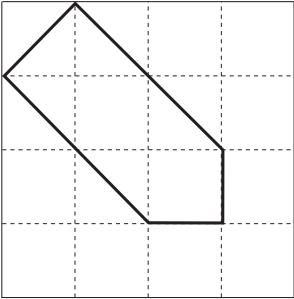
*Teacher Guide* - **Page 3**

Name _____ Date _____

6. Use a ruler to measure the length of the pencil to the nearest centimeter. Include units. _____

7. The shape below is drawn on a square-inch grid. Measure lengths to the nearest half inch.
   **A.** What is its area? _____
   **B.** What is its perimeter? _____

   **C.** How many sides does the shape have? _____
   **D.** How many vertices does it have? _____
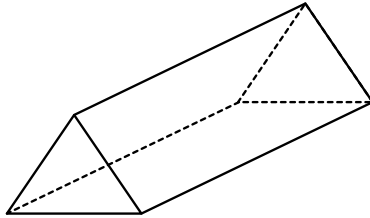   **E.** How many right angles does it have? _____

4  TG · Grade 3 · Unit 13 · Lesson 10          Assessment Master

*Teacher Guide* - **Page 4**

**Part 2**

5. **A.** 20 cc
   **B.** 16 cc

6. 10 cm

7. **A.** $4\frac{1}{2}$ sq. in.
   **B.** $9\frac{1}{2}$ inches
   **C.** 5 sides
   **D.** 5 vertices
   **E.** 3 right angles

**8. A.** 4 vertices

**B.** 4 faces

**C.** 6 edges

**9.** triangular prism

**10.**
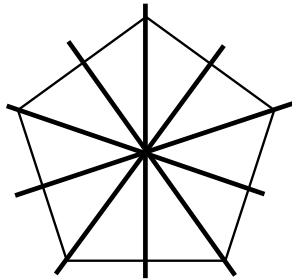
**11. A.** 26 minutes

**B.** 12:40 PM

**12.**

| Object | Right | Front |
|--------|-------|-------|
| ■ | 9 | 8 |
| ▲ | 4 | 2 |
| ● | 6 | 5 |

**13.** 67g;

```
  10        5        1       30
  10      × 7      × 2       35
+ 10      ────     ───      + 2
────       35        2      ────
  30                         67  grams
```

*Teacher Guide* - **Page 5**
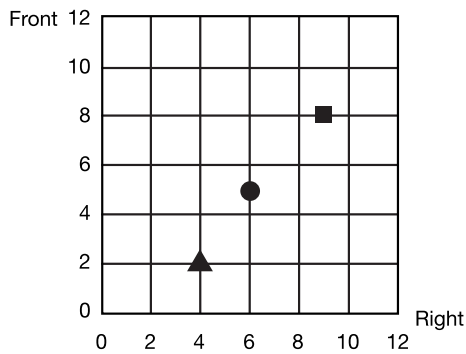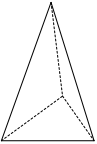
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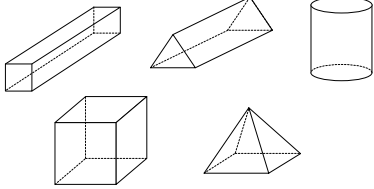
**8.** Look at this shape:

**A.** How many vertices does it have? _____

**B.** How many faces does it have? _____
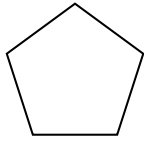
**C.** How many edges does it have? _____

**9.** Josh traced the faces of a three-dimentional shape.

Which 3-D shape does Josh have? Circle the shape.

**10.** Draw two or more lines of symmetry.

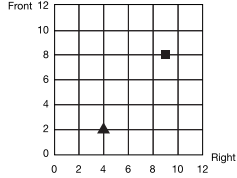Assessment Master          TG · Grade 3 · Unit 13 · Lesson 10    **5**

*Teacher Guide* - **Page 6**

Name _____ Date _____

**11. A.** At 8:18 AM, Josh started walking his dog, Buddy. He finished at 8:44 AM. How long was the walk?

**B.** Later in the day, Buddy took a nap. He fell asleep at 11:55 AM and slept for 45 minutes. What time did Buddy wake up? Was it AM or PM?

**12. A.** Write the coordinates of the triangle and square on the data table.

**B.** Draw the circle at the correct point on the map.

| Object | Right | Front |
|--------|-------|-------|
| ■ | | |
| ▲ | | |
| ● | 6 | 5 |

**13.** Mara put some marbles in one pan of a two-pan balance. She balanced the pans with three 10-gram masses, seven 5-gram masses, and two 1-gram masses. What is the marbles' mass? Show or tell how you found your answer.

6   TG · Grade 3 · Unit 13 · Lesson 10          Assessment Master

*Teacher Guide* - Page 7



*Teacher Guide* - Page 8

**14. A.** T
   **B.** F
   **C.** T

**15. A.**

| Fractions $< \frac{1}{2}$ | Fractions $= \frac{1}{2}$ | Fractions $> \frac{1}{2}$ |
|---|---|---|
| $\frac{1}{8}$ , $\frac{1}{4}$ | $\frac{2}{4}$ , $\frac{4}{8}$ | $\frac{2}{3}$ , $\frac{3}{4}$ , $\frac{5}{6}$ , $\frac{6}{8}$ |

   **B.** Possible response: I used the *Fraction Chart*. I know that $\frac{2}{3}$ is the same as $\frac{4}{6}$. $\frac{1}{2}$ is $\frac{3}{6}$ so $\frac{4}{6}$ is greater than $\frac{1}{2}$.
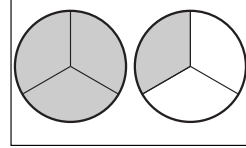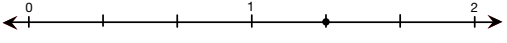
**16.**



**17.** Possible solution:



**18.** Joe is correct. $\frac{1}{4}$ of a cup is much less than $\frac{1}{4}$ of a gallon. Moe is not thinking about how big the whole is.

**19. A.** Possible division of rectangle and number sentences:



$6 \times 10 = 60$    $6 \times 4 = 24$

   **B.** See drawing above.
   **C.** $6 \times 14 = 6 \times 10 + 6 \times 4$
   $= 60 + 24$
   $= 84$

## Part 3

**20. A.**

| Number of Dozens | Number of Donuts |
|:---:|:---:|
| 1 | 12 |
| 2 | 24 |
| 4 | 48 |
| 6 | 72 |
| 8 | 96 |

**B.**

Donuts Sale
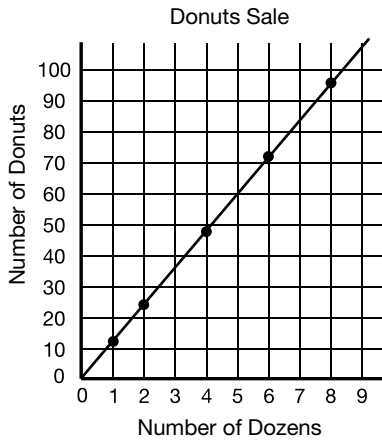


**C.** 120 donuts; Possible explanation: I used the graph. I found that 5 dozen is 60 donuts. I doubled that for 10 dozen.

60 donuts + 60 donuts = 120 donuts.

**D.** 80 donuts is between 6 dozen and 7 dozen on my graph. He would need 7 boxes to fit all of the donuts because 6 boxes would only hold 72 of the donuts.

**E.**



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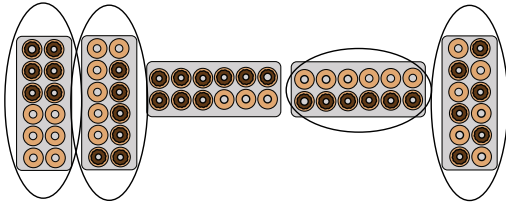
Name _____ Date _____

**Part 3**

**20.** Ms. Alfonso's class is selling donuts for the school fundraiser.

**A.** Complete the table.

Dozens of Donuts

| Number of Dozens | Number of Donuts |
|:---:|:---:|
| 1 | 12 |
| 2 | 24 |
| 4 | |
| 6 | |
| | 96 |

**B.** Make a graph using data from the table. Draw a best-fit line.

Dozens of Donuts



**C.** How many donuts are in 10 dozen? Show or tell how you know.

**D.** Mr. Martinez bought 80 donuts for the teachers. One dozen donuts fit into one box. How many boxes are needed so that he can carry them all to the teachers' lunchroom? Explain how you decided.

**E.** Circle the boxes of donuts in which $\frac{1}{2}$ of them are chocolate.



Assessment Master                    TG · Grade 3 · Unit 13 · Lesson 10    9

*Teacher Guide* - **Page 9**