## Arizona's Instrument to Measure Standards (AIMS)

Grade 6

Writing, Reading, and Mathematics

**Released Items** 

January 7, 2008

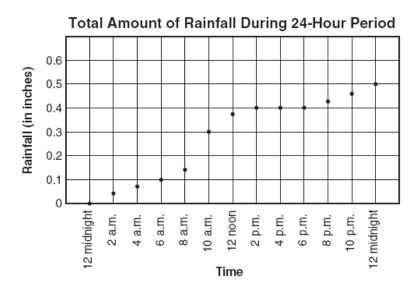
## Mathematics —

**DIRECTIONS:** Read each question and choose the best answer.

- 1. Forty percent of Ms. Liu's class returned their field trip permission slips on Friday. What fraction of the class returned their field trip permission slips on Friday?

- 2. David is going to buy two new hats. Including tax, one hat costs \$7.49, and the other hat costs \$8.32. If David gives the cashier a \$20 dollar bill, how much change should David get?
  - **A** \$4.18
  - **B** \$4.19
  - C \$15.71
  - \$15.81

3. The graph below shows the total amount of rainfall in a city during a 24-hour period.

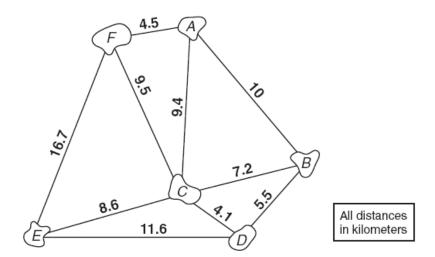


- During which two-hour period did the total amount of rainfall remain the same?
- **A** 4 a.m. to 6 a.m.
- **B** 8 a.m. to 10 a.m.
- C 4 p.m. to 6 p.m.
- **D** 10 p.m. to 12 midnight
- **4.** What is the value of the expression below when  $n = \frac{6}{7}$ ?

$$n - \frac{3}{7}$$

- $\mathbf{A} = \frac{2}{7}$
- **B**  $\frac{3}{7}$
- **c**  $\frac{4}{7}$
- **D**  $\frac{9}{7}$

**5.** Visitors on a boat will travel to a group of islands. The vertex-edge graph below shows islands *A*, *B*, *C*, *D*, *E*, and *F*.

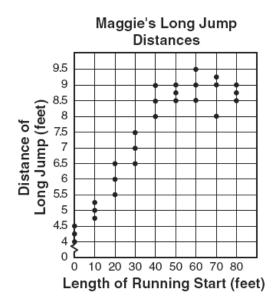


Note: The figure is not drawn to scale

- Using the vertex-edge graph, which of these is the shortest route from island A to island E?
- A  $A \rightarrow C \rightarrow E$
- **B**  $A \rightarrow F \rightarrow E$
- C  $A \rightarrow B \rightarrow C \rightarrow E$
- **D**  $A \rightarrow C \rightarrow D \rightarrow E$

- **6.** Which shape is a quadrilateral?
  - **A** hexagon
  - **B** parallelogram
  - **C** pentagon
  - **D** triangle

**7.** Maggie made the scatter plot below to record the distances she jumped with different running start lengths.



- Which is the distance of Maggie's longest jump when she had a running start of 20 feet?
- **A** 4.5 feet
- B 6 feet
- **C** 6.5 feet
- **D** 9 feet
- **8.** Matthew, Cory, Jordan, and Travis each own a different pet. The pets are a bird, a cat, a goldfish, and a hamster. Some clues about the pets are listed below.
  - Matthew's pet cannot fly.
  - The hamster belongs to a person with the letter "o" in his name.
  - Jordan's pet does not have fur.
  - The cat does not belong to Travis.

Based on the clues, which pet does Matthew own?

- A bird
- B cat
- C goldfish
- D hamster

**9.** Peyton was given the division problem below to work.

Her work is shown below.

- At which step did Peyton make her first mistake?
- A Step 1
- B Step 2
- C Step 3
- **D** Step 4

C

**10.** Mary used the four points below as vertices of a polygon.

Which could be Mary's polygon?

