

SKILLS LIST and SAMPLE ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 6

(Test items developed for skills measured in CRCT)

Skills

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| 1.0 Number Sense and Numeration | 4.0 Statistics and Probability |
| 1.1 Fundamental Characteristics | 4.1 Collects and Organizes Data |
| 1.2 Place Value | 4.2 Interprets and Draws Conclusions from Data |
| 1.3 Properties of Numbers | 4.3 Probability |
| 2.0 Geometry and Measurement | 4.4 Identifies Outcomes of Events |
| 2.1 Characteristics of Shapes | 4.5 Determines Mean and Median |
| 2.2 Appropriate Units/Instruments | 5.0 Computation and Estimation |
| 2.3 Formulas Related to Plane and Solid Figures | 5.1 Properties of Addition and Multiplication |
| 3.0 Patterns and Relationships | 5.2 Operations in Computation and Problem Solving (Whole Numbers/Fractions/Decimals/Mixed Numbers) |
| 3.1 Number Relations | 5.3 Estimation and Mental Computation |
| 3.2 Predicts and Completes Patterns | 5.4 Computes Percent |
| 3.3 Missing Terms and Rules for Patterns | 6.0 Problem Solving |
| 3.4 Recognizes, Describes, and Generalizes Patterns and Sequences | 6.1 Interprets Data/Appropriate Graphs |
| 3.5 Identifies and Uses Variables | 6.2 Problem-Solving Strategies |
| 3.6 Uses Order of Operations | |
| 3.7 Solves Equations | |
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CRCT PRACTICE TEST IN MATHEMATICS - GRADE 6 - FORM A

1. Jim and Mike sell medium-size melons for \$0.37 per pound. How much would they charge for 5 medium-size melons, each of which weighs 1.25 pounds?

- A. \$1.85
- B. \$2.31
- C. \$6.62
- D. \$23.10

2. Subtract. Answer should be in simplest form.

$$\frac{5}{12} - \frac{3}{9}$$

- A. $\frac{3}{36}$
- B. $\frac{1}{12}$
- C. $\frac{2}{3}$
- D. $\frac{8}{21}$

3. Susan must draw a letter from a box that contains 6 A's, 7 B's, 4 C's, and 3 D's. Which of the following predictions is NOT accurate?

- A. Susan will be more likely to draw an A than a C.
- B. Susan will probably draw a D.
- C. Susan will probably draw a B.
- D. Susan will be more likely to draw a B than a C.

4. Which of the following functions is represented in the table?

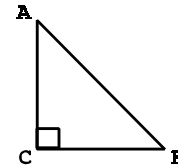
x	y
0	-1
1	1
2	3

- A. $y = 3x + 1$
- B. $y = 2x - 1$
- C. $y = 2x + 1$
- D. $y = 3x - 1$

5. Mr. Dawson's mailbox is 20 feet from his house. In front of the mailbox is a sidewalk 3 feet wide. The sidewalk is 6 feet from the road. How far is Mr. Dawson's house from the road?

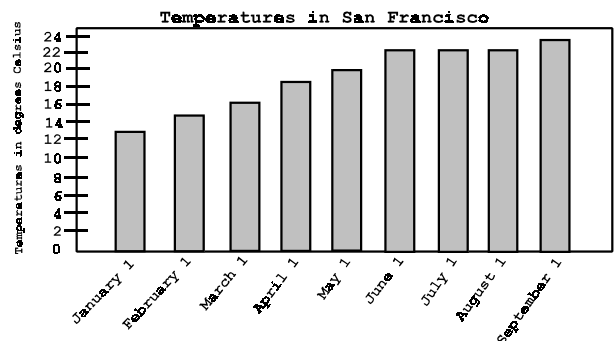
- A. 29 feet
- B. 26 feet
- C. 23 feet
- D. 11 feet

6. Which of the following statements is true about the isosceles right triangle ABC?



- A. angle C and angle B are congruent
- B. side AC and side AB are congruent
- C. side AC and side CB are congruent
- D. angle A and angle C are congruent

7. Which statement about the graph is true?



- A. Temperatures were steadily increasing.
- B. Temperatures in January and February were the same.
- C. Temperatures in May were higher than temperatures in June.
- D. Temperatures in September were the lowest of all.