

CISD Grade 6 Math Unit 02

Some questions (c) 2012 by CSCOPE.

- 1** Mr. Jones charged Roberta \$55 for parts and \$20 per hour for labor to repair her bicycle. He spent 2 hours repairing her bike. Using the expression below, calculate the amount Roberta owes him?

$$55 + 2 \times 20$$

- A** \$130
B \$150
C \$95
D \$77
- 2** Given the following expression, which operation should be evaluated FIRST?
 $17 + 95 - 26 - 7 \times 123$
- F** subtraction
G division
H addition
J multiplication
- 3** Kevin baked 30 sugar cookies and 40 chocolate chip cookies for a bake sale. He made packages of chocolate chip cookies and packages of sugar cookies. Each package has the same number of cookies. Which of the following could be the number of cookies in each package?
- A** 3
B 4
C 5
D 6

- 4** Identify a common multiple of 5, 6, & 20.
- F** 20
G 30
H 100
J 120

- 5** Evaluate the following expression:

$$14 + 4 \times (15 - 5) \div 5$$

- A** 180
B 36
C 22
D 6
- 6** Select the process you would follow for evaluating the expression:

$$2(12 - 4) \div 4 + 10$$

- F** multiply, divide, subtract, add
G subtract, divide, multiply, add
H subtract, multiply, divide, add
J add subtract, multiply, divide
- 7** Given the number 250:
- A. What is the prime factorization of the number?
- B. How can the prime factorization be written using exponents?

8 What number is the greatest common factor of 16 and 36?

- F** 9
- G** 8
- H** 4
- J** 2

9 Patsy and Penny evaluated this expression:

$$17 + 3 - 3(5)$$

Patsy got 5 for an answer, and Penny got 85.

A. Who is correct?

B. What mistake could the other person have made?

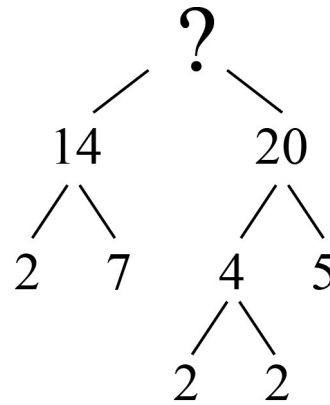
10 What is the GREATEST common factor of 30 and 120?

- F** 5
- G** 9
- H** 15
- J** 30

11 What is the LEAST common multiple of 12 and 10?

- A** 3
- B** 30
- C** 60
- D** 120

12 Which number is represented by the following tree diagram?



- F** 210
- G** 280
- H** 35
- J** 315

13 The Munstead family was planning a party for their daughter, Margo's, 15th birthday. They decided to hire a caterer. The caterer charges a setup fee of \$75, plus \$10 per person. Margo's grandmother sent \$50 to be used for the party. Use the expression below to correctly calculate the amount the Munstead family owes the caterer if 25 people attended the party.

$$75 + 25 \times 10 - 50$$

- A** \$2,075
- B** \$275
- C** \$375
- D** \$725

14 Which of the following shows the prime factorization of 90, using exponents?

F 6×10^1

G $2^2 \times 3 \times 5$

H $2 \times 3^2 \times 5$

J $10 \times 3 \times 2^1$