Grade 8 Math Unit 2 Test

NAME:

Evaluate: $(-4) \times (-8)$

-32

- -12 B)
- 12 C)
- 32

2. Evaluate:

- A)
- B)
- D) 8

10

50

 $6 \div (-2 + 4)$ 3. Evaluate:

A)

- B)
- C)
- D)

During one week the daily temperature changes in Curling were: 2, 3, 5, 1, -3, 4, and 2 degrees. What was the mean daily temperature change in degrees?

- A)
- C)
- D)

(-2) + (-2)(-2)(-2) is equivalent to which value?

- -16
- C) -8
- D) 16

6. Ivana Tooney has \$64 in her bank account. If she spends \$13 every day for a week, what will be the final balance 64-13×7 =64-91=-27 in her bank account at the end of that week?

- A) \$ -77
- C) \$ -1

7. Which multiplication statement represents (-4) + (-4) + (-4)?

- $(-3) \times (-4)$
- $(-3) \times (+4)$
- $(+3) \times (+4)$ D)

8. Jim played cards with his Nan five times; twice he won four dollars, and three times he lost two dollars. Which (2x4) + (3x62))=8+(-6)=2 integer represents Jim's total winnings in dollars?

- A)
- B)

Grade 8 Math Unit 2 Test

Calculate: $(-35) \div (-7) - (-28) \div (4)$ A) -12 B) -2



11.

- 10. The ground temperature at an airport is 10°C. The temperature drops 4°C for every 1000 m above the ground. What is the temperature outside an airplane that is 6000 m high?
 - A) -34°C
- B) -24°C
- C) -14°C
- D) -6°0

$$-4x6 = -24$$

Using integers, write a mathematical expression describing each of the following.

[3 marks]

A) A gain of 8 meters followed by a loss of 3 meters.

$$(+8) + (-3) = +5m$$

B) For five weeks in a row the loss on a business deal has been \$450.

Lost \$90 per week.

C) Eight identical pieces of pizza is shared equally among 3 friends and their coach.

12. A) Give 4 integers whose *sum* is -5 using 2 negative *and* 2 positive integers.

[1 mark]

Answers may Vary.

B) Give 3 integers such that the *product* is -32.

[2 marks]

$$(2)(4)(-4) = -32$$

Grade 8 Math Unit 2 Test

- 13. Evaluate. Show steps for full marks when more than one step is required!
 - A) $(-42) \div 6$
- B) -3(-5)
- C) 7(-3)(0)

[3 marks]

- $\frac{-50}{-25}$ = 2
- E) (-1)(-8) + (-3)(-4)= 8 + 12

[4 marks]

F)
$$(-28) + (-16) + 2$$

 -36

[4 marks]

H)
$$[(-45) \div 5] + \frac{-18}{3}$$
 [2 1 $(-9) + (-6)$

$$[(-45) \div 5] + \frac{-18}{3} \quad [2 \text{ marks}] \qquad H) \qquad (-6)(-3 - 4) + 6(-9 + 7)$$

$$(-9) + (-6) \qquad \qquad (-6)(-7) + 6 (-2)$$

$$-15 \qquad \qquad 42 + (-12)$$

$$36$$

14. Do any three of these problems. Fully explain your answers and show your reasoning! [15 marks]

A) Using a model of your choice explain how to either multiply or divide integers.

B) Evaluate
$$\frac{16+4(3)}{10-4+1} + \frac{(16+4)(3)}{10-(4+1)}$$

 $\frac{16+12}{6+1} + \frac{(20)(3)}{10-(5)}$
 $\frac{28}{7} + \frac{60}{5}$
 $\frac{4+12}{16}$

Jimmy caught three passes during a high school football game. One was for a touchdown and went for 38 yards. Another was for a first down and was for 16 yards. The other was on a screen pass that did not work so well and ended in a loss of 9 yards. What was the mean distance gained by Jimmy on those three plays?

$$\frac{(+38)+(+16)+(-9)}{3}=\frac{45}{3}=15$$



This expression has been evaluated incorrectly. Identify and explain the mistake and then evaluate the

Untitled.notebook October 24, 2017