Palomar College Math Placement Test Study Guide Intermediate Algebra

Topic 1: Rational Numbers

1.
$$8-4 \div 2-2 =$$

2.
$$-|-7|-|5| =$$

3.
$$|3 - 10| + |-3| - |-10| =$$

4.
$$\sqrt{4} - 5(6 - 8) - (-3)^2 =$$

- 5. a. $\left(-\frac{4}{9}\right)^2 = b. -\left(\frac{4}{9}\right)^2 =$
- 6. The lowest temperature on a winter morning in Fairbanks, Alaska was -23° F. By the afternoon the temperature reached 8° F. By how many degrees Fahrenheit did the temperature increase?

7. What is the reciprocal of
$$-4$$
?

- 8. Place in order from least to greatest: -0.3, 0.3, 1/3, -1.3
- 9. 0.49999 × 14.123456789111 is approximately equal to

a. 0.07 b. 0.7 c. 7 d. 70

$$10. \qquad \frac{3^2 - 6^2}{(3 - 6)^2} =$$

$$11. \quad -\frac{7}{8} \div \left(-\frac{3}{16}\right) =$$

12.
$$\frac{-15 \cdot 30 \div 5^2}{2 \cdot 3 - 6} =$$

13.
$$-\frac{3}{5}\left(\frac{2}{3} + \frac{1}{2}\left(\frac{1}{2} - \frac{3}{4}\right)\right) =$$

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Answers:

1.	4
2.	-12
3.	0
4.	3
5.	a. $\frac{16}{81}$ b. $\frac{-16}{81}$
6.	The temperature increased by 31°F.
7.	$-\frac{1}{4}$
8.	$-1.3, -0.3, 0.3, \frac{1}{3}$
9.	(c)
10.	-3
11.	$\frac{14}{3}$
12.	undefined
13.	$-\frac{13}{40}$