

Tutor Doctor

Math 7: Number Sense and Numeration, 10 Questions

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1.



Justin is watching coverage of a space shuttle launch on TV.

The countdown clock shows the number of hours before the launch with negative integers, and the number of hours after launch with positive integers.

The clock currently reads -23:00 hours to launch countdown. In eight hours, the astronauts will begin preparations for the mission. What will the clock show then?

- ☐ A) -31:00
- ☐ B) 31:00
- ☐ C) 15:00
- ☐ D) -15:00

2. The expression below that has the greatest result is:

- ☐ A) $(+4) - (+3)$
- ☐ B) $(-7) - (+4)$
- ☐ C) $(+6) - (-4)$
- ☐ D) $(-2) - (-5)$

3. $19\frac{5}{18} + 16\frac{1}{3}$

- ☐ A) $35\frac{5}{54}$
- ☐ B) $35\frac{2}{7}$
- ☐ C) $35\frac{4}{21}$
- ☐ D) $35\frac{11}{18}$
- ☐ E) $35\frac{5}{6}$

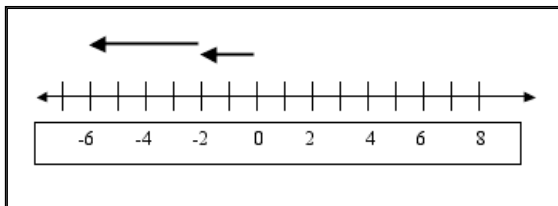
4. Winnie is attempting to solve the following equation:

$$\frac{6}{-4 + 4}$$

She finds that it cannot be solved. Why?

- ☐ A) You cannot divide by negative numbers
- ☐ B) The minus sign should be with the numerator (on the top), not with the denominator (at the bottom)
- ☐ C) You cannot divide 6 into 4 equal pieces
- ☐ D) The value of the denominator is zero and you cannot divide by zero

5. Which addition statement is represented by the number line?



- ☐ A) $(2) + (4) = (6)$
- ☐ B) $(-2) + (-4) = (-6)$
- ☐ C) $(0) + (6) = (6)$
- ☐ D) $(-2) + (6) = (4)$

6. Use the numbers 4, 5, 8 and 9, only once, to replace the squares in:

$$\begin{array}{r} \square \quad \square \\ - \quad - \\ \hline \square \quad \square \end{array}$$

The BIGGEST difference would be created by:

- ☐ A) $\frac{8}{4} - \frac{5}{9}$
- ☐ B) $\frac{8}{9} - \frac{4}{5}$
- ☐ C) $\frac{5}{9} - \frac{4}{8}$
- ☐ D) $\frac{8}{4} - \frac{9}{5}$

7.

Substance	Boiling Point
Helium	-269°C
Toluene	111°C
Iron	2861°C
Tungsten	5900°C

According to the above table, how much cooler is the boiling point of helium than the boiling point of tungsten?

- ☐ A) 269°C
- ☐ B) 5900°C
- ☐ C) 5631°C
- ☐ D) 6169°C

8. Paint costs \$26.75 per gallon. Randy needs 4 gallons of paint to paint his living room. If he has \$95.25 to spend on paint, how much of the living room will he be able to purchase paint for? Assume that you can buy any quantity of paint, not just a gallon at a time.

- ☐ A) 100%
- ☐ B) 89%
- ☐ C) 26.75%
- ☐ D) 107%

9. $\frac{9}{14} - \frac{1}{2} + \frac{3}{7} = \frac{a}{b}$,

where $\frac{a}{b}$ is a fraction in reduced form.

The value of a is:

- ☐ A) 3
- ☐ B) 4
- ☐ C) 5
- ☐ D) $\frac{4}{7}$
- ☐ E) $\frac{8}{14}$

10. At the Winter Olympic games, 20% of the fans were cheering for Canadian athletes. What fraction of the fans were cheering for Canada?

- ☐ A) $\frac{1}{20}$
- ☐ B) $\frac{1}{4}$
- ☐ C) $\frac{1}{5}$
- ☐ D) $\frac{2}{1}$

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