

- 6) The point $(2, 2, -2)$ lies on a sphere in space. If the center of the sphere is the origin, what is the diameter?

- a) 2
b) $2\sqrt{2}$
c) $2\sqrt{3}$
d) 4
e) $4\sqrt{3}$

The diameter of the sphere (the longest possible line drawn inside the sphere) is double the length of the radius....

To find the radius, use distance formula

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

$$= \sqrt{(2 - 0)^2 + (2 - 0)^2 + (-2 - 0)^2} = \sqrt{12} = 2\sqrt{3} \text{ (radius!)}$$

diameter = $4\sqrt{3}$

- 7) If p and q are positive integers, where $pq = 24$, then $\frac{p}{q}$ cannot equal

- a) $1/6$ $2/12$
b) $2/3$ $4/6$
c) 2
d) $8/3$ $8/3$
e) 6 $12/2$

consider factor pairs of 24:

- 1 and 24
- 2 and 12
- 3 and 8
- 4 and 6

8) $2 + \frac{x}{x+5} =$

- a) $\frac{x+2}{x+5}$ b) $\frac{x+2}{x+6}$ c) $\frac{2x}{x+5}$ d) $\frac{3x+5}{x+5}$

(common denominator) $\frac{2(x+5)}{(x+5)} + \frac{x}{x+5}$

e) $\frac{3x+10}{x+5}$

$$\frac{2x+10}{x+5} + \frac{x}{x+5}$$

$$\frac{3x+10}{x+5}$$

- 9) If $\log(3) = A$ and $\log(4) = B$, then $\log(36) =$

- a) A^2B b) $2A+B$ c) $2AB$ d) $3AB$ e) $\frac{AB}{3}$

log rule: $\log(XY) = \log X + \log Y$

$$\begin{aligned} \log(36) &= \log(3 \cdot 3 \cdot 4) = \\ &= \log(3) + \log(3) + \log(4) = \\ &= A + A + B = 2AB \end{aligned}$$

- 10) Let $R \oplus S = 2R - S$ What is $(5 \oplus 0) - (0 \oplus 5)$?

- a) -5
b) 0
c) 5
d) 10
e) 15

$$2(5) - 0 - [2(0) - 5] = 10 - [-5] = 15$$

Math Grade 8 Answer Key

Emilie Sanchez

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the author's name.

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