DO NOW

Grab a voter from the side counter.

Signed Number Operations PreAssessment

Pretest on adding, subtracting, multiplying and dividing signed numbers.

1.2 Translating and Writing Formulas

formula - *special equation that expresses a rule or relationship between 2 or more quantities.*

SEE CW 1.2

Examples: Translate each statement into a formula.

1. The central angle (a) of a regular polygon equals 360 degrees divided by the number of sides (n).

$$a = \frac{360}{n}$$

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2. The surface area of a cylinder (A) is equal to the product of twice π times the radius (r) times the sum of the radius (r) and the height (h).

$$A = 2\pi r (r+h)$$

✱ times the sum

need ( )

Translate each formula into a statement.

3. $V = \pi r^2 h$, where V = volume of a cylinder, r = radius of the base, and h = height of the cylinder.

The volume of a cylinder (V) is equal to π times the square of the radius of the base (r) times the height of the cylinder (h).

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4. $P = b + 2e$, where P = perimeter of an isosceles triangle, b = length of the base, and e = the length of each equal side.

The perimeter of an isosceles triangle (P) is equal to the length of the base (b) plus twice the length of each equal side (e).

HOMEWORK

Worksheet - HW 1.2