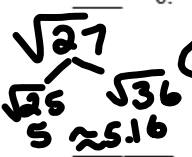
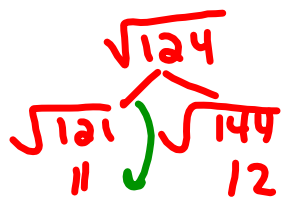
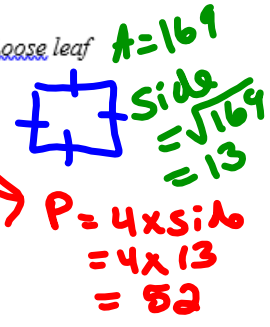


Multiple Choice

Identify the choice that best completes the statement or answers the question. SHOW all work on Loose leaf

1. Suzanne wants to put a fence around her square garden. If the garden covers an area of 169 m², how many metres of fencing does she need?
 a. 26 m b. 52 m c. 676 m d. 13 m
2. Find $\sqrt{100}$.
 a. 18 b. 108 c. 10 d. 800
3. Find the sum of $4^2 + 5^2$.
 a. 36 b. 81 c. 41 d. 40
4. Which whole number is $\sqrt{124}$ closer to?
 a. 11 b. 10 c. 13 d. 12
5. Simplify $\sqrt{10} + \sqrt{13}$ to the nearest whole number.
 a. 5 b. 7 c. 12 d. 8
6. Find the approximate side length of a square with area 27 cm². Give your answer to 1 decimal place.
 a. 5.2 cm b. 13.5 cm c. 3.7 cm d. 6.8 cm
7. Find the product of -10 and +3.
 a. +13 b. +30 c. -7 d. -30



→ multiply

$(-10)(+3)$

Square \rightarrow Area_{square} = Side²

\rightarrow Side length = $\sqrt{\text{Area}_{\text{square}}}$

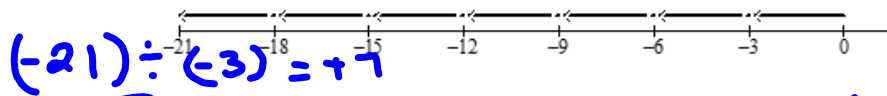
\Rightarrow Perimeter_{square} \Rightarrow 4 x side

5) $\sqrt{10} + \sqrt{13}$

$\sqrt{9} \sqrt{16} \approx 3.1$ $\sqrt{9} \sqrt{16} \approx 3.6$
 ≈ 6.7

$(-21) \div$ *arrow size*
 Total distance

8. Write the integer division modelled by this number line.



$(-21) \div (-3) = +7$

- a. $(-21) \div (-3) = +7$
- b. $(-21) \div (+3) = -7$

- c. $(-21) \div (+7) = -3$
- d. $(+21) \div (+3) = +7$

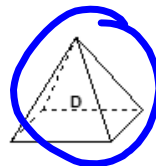
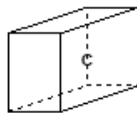
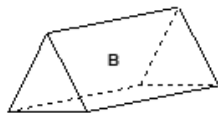
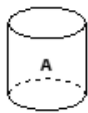
9. Evaluate. $-13 + 9 + (-3) + 9$

- a. 1
- b. -1

c. 7

$(-13) + 9 \div (-3) + 9$
 $(-13) + (-3) + 9$
 $-16 + 9$
 -7

10. Which object is NOT a prism?

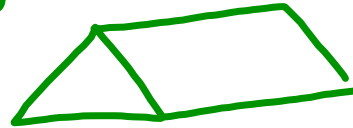


- a. Object A
- b. Object B
- c. Object C
- d. Object D

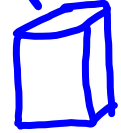
Prism \Rightarrow 2 faces
 \rightarrow sides are Rectangles

Ex) Triangular prism

2 Δ
3 \square



Rectangular
Prism



Pyramid \rightarrow Edges meet at 1 vertex
 \rightarrow sides are Δ

Cylinder



2 \circ
1 Rec

$$(-16) - (-9)$$

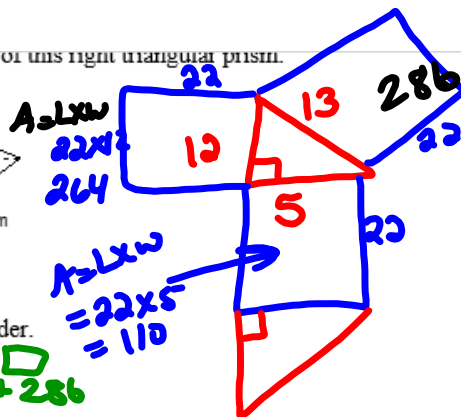
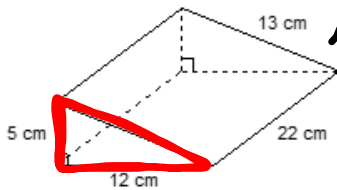
↑ add ↘ opposite

$$(-16) + (+9)$$

↖ difference ↗
-7

$$\begin{array}{l} (-16) - (+9) \\ \quad \quad \quad \uparrow \quad \quad \uparrow \\ \quad \quad \quad \text{add} \quad \text{opp} \\ (-16) + (-9) \\ \quad \quad \quad \swarrow \quad \searrow \\ \quad \quad \quad \text{same} \\ \quad \quad \quad \text{just add} \\ \quad \quad \quad -25 \end{array}$$

27. Calculate the surface area then the volume of this right triangular prism.



13×22
 $L \times w$

$$A_{\Delta} = \frac{b \times h}{2}$$

$$= \frac{12 \times 5}{2}$$

$$= \frac{60}{2}$$

$$= 30 \text{ cm}^2$$

Find the surface area and volume of this cylinder.

Total = $2\Delta + \square + \square + \square$
 Problem = $2(30) + 110 + 264 + 286$
 $= 1320$

28. A square gymnasium floor has area 144 m^2 . Find the perimeter of the gymnasium floor.

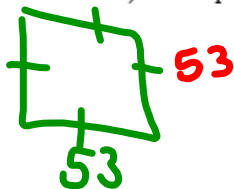
$P = 4 \times \text{side} = 4 \times 12 = 48$ } Side = $\sqrt{144} = 12$

29. Is 4.24 a good estimate of $\sqrt{18}$? Justify your answer.

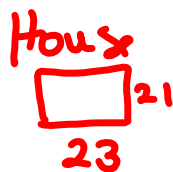
Yes $\rightarrow \sqrt{16} \approx 4$ } $\sqrt{25} \approx 5$

30. Skip bought a square lot on which he wants to build a house. The length of a side of the lot is 53 m. Skip plans to build a house with a length of 23 m and a width of 21 m.

- Find the area of the house.
- What percent of the lot will be covered by the house? Round your answer to the nearest percent.



$A_{\text{lot}} = L \times w$
 $= 53 \times 53$
 $= 2809$



$A_{\text{house}} = L \times w$
 $= 23 \times 21$
 $= 483 \text{ m}^2$

$\frac{\text{House}}{\text{lot}} = \frac{483}{2809} = 0.17 = 17\%$