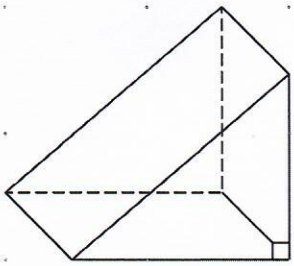
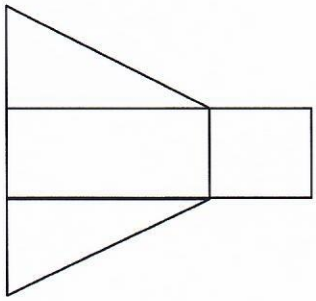
Question 21

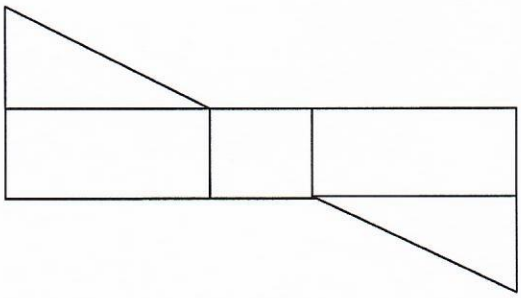
Which option would make this solid?



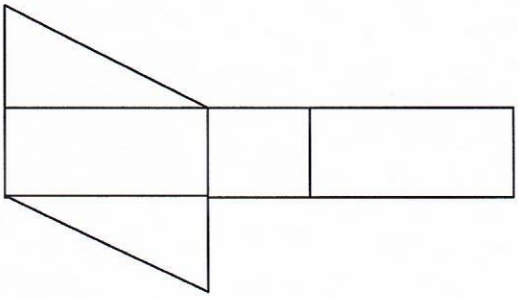
A:



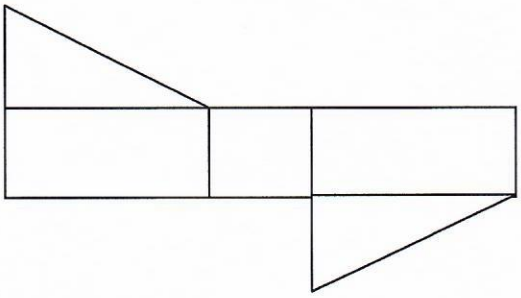
B:



C:



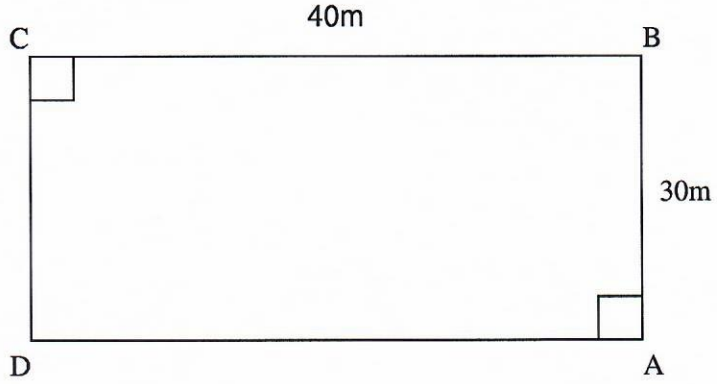
D:



E: None of the nets would make the solid

Question 22

The diagram shows a small rectangular field. If Linda runs from A to B to D to C to A, how far does she run?



A: 120m **B:** 160m **C:** 140m **D:** 150m **E:** None of these

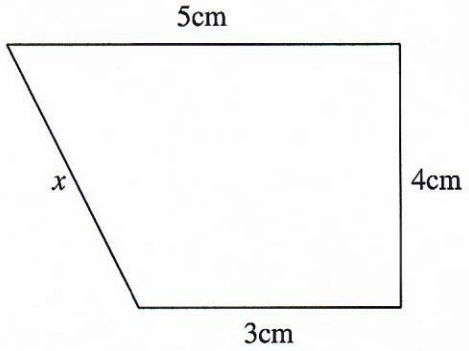
Question 23

Simplify the surd $3\sqrt{56}$ completely

A: $12\sqrt{14}$ **B**: $5\sqrt{14}$ **C**: $6\sqrt{14}$ **D**: $6\sqrt{28}$ **E**: None of these

Question 24

The length of x equals



A: 6cm

B: $\sqrt{6}cm$

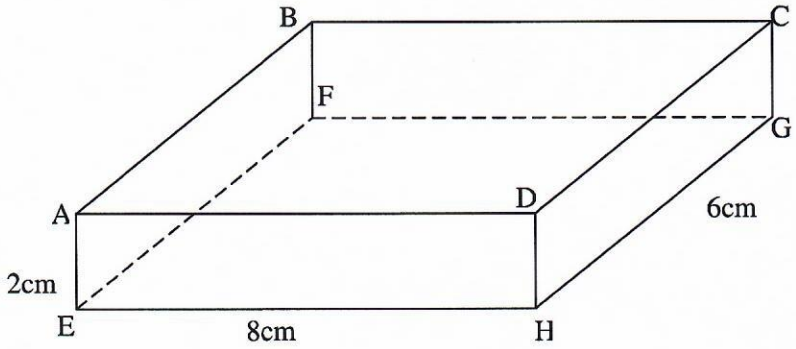
C: $5\sqrt{2}cm$

D: $2\sqrt{5}cm$

E: None of these

Question 25

The rectangle box has dimensions as shown. What is the length $\overline{AG}$?



A: $2\sqrt{26}$

B: $4\sqrt{6}$

C: $2\sqrt{3}$

D: $\sqrt{16}$

E: None of these

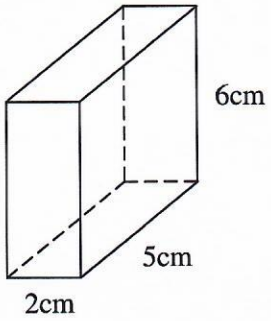
Question 26

Sam bought a car valued at \$7700. One year later the car's value had decreased by $^{2}/_{7}$. What is the new value of the car?

A: \$2200 **B**: \$5500 **C**: \$9900 **D**: \$4400 **E**: None of these

Question 27

If Density = Mass ÷ Volume, what is the Mass of the solid in the diagram if its Density is 1.2gm / $cm^{3?}$



A: 50gm

B: 60gm

C: 72gm

D: 38.4gm

E: None of these

Question 28

What is the speed in m/s of a car that travels 30km in 20 minutes?

A: 1500 m/s **B**: 150 m/s **C**: 90 m/s **D**: 540 m/s **E**: None of these

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Question 29

If R = $\frac{(S+T)P}{3}$ then T equals

A: $\frac{3R-S}{P}$ **B**: $\frac{PR}{3}-S$ **C**: $\frac{3R}{P}+S$ **D**: $\frac{3R+S}{P}$ **E**: $\frac{3R}{P}-S$

Question 30

Solve the inequation for x

$\frac{5(9-x)}{3}+1<11$

A: $x<3$ **B**: $x>3$ **C**: $x>-3$ **D**: $x>1\frac{4}{5}$ **E**: None of these

---

Question 31

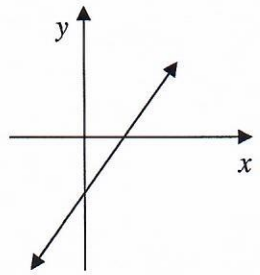
Solve for x

$\frac{4x-3}{5}-\frac{2x-3}{2}=-2$

A: $x=1\frac{11}{18}$ **B**: $x=5\frac{1}{2}$ **C**: $x=-5\frac{1}{2}$ **D**: $x=14\frac{1}{2}$ **E**: $x=-14\frac{1}{2}$

Question 32

Which equation could only be the equation of the graph?



A: $y = 3x + 2$

B: $y = -3x - 2$

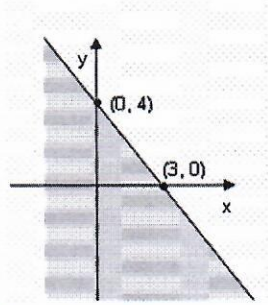
C: $y = 3x - 2$

D: $y = -3 + 2$

E: $y = -x - 2$

Question 33

Which set of coordinates lie outside the shaded area?



A: $(0,0)$

B: $(-1,-6)$

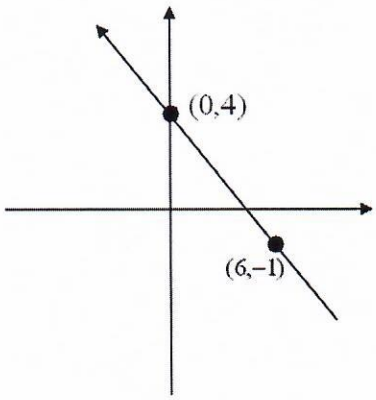
C: $(1,-50)$

D: $(1,1)$

E: $(4,1)$

Question 34

The equation of this graph is:



A: $y = -\frac{6x}{5} + 4$

B: $y = \frac{5x}{6} + 4$

C: $y = 5x + 4$

D: $y = -\frac{5x}{6} + 4$

E: $y = \frac{-5x}{6} - 4$
