

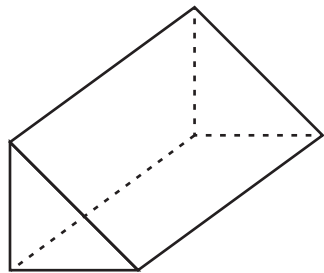
SESSION 1

This session contains 31 multiple-choice questions. Fill in the circle for your answer to each multiple-choice question.

You may use a protractor and a ruler during this session. You may **not** use a calculator during this session.

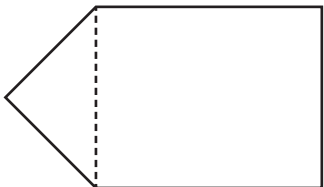
SAMPLE

- 10 A triangular prism is shown below.

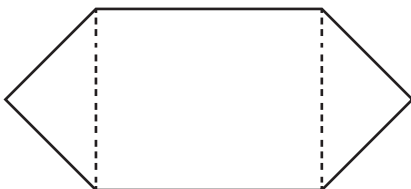


Which net could be used to represent this triangular prism?

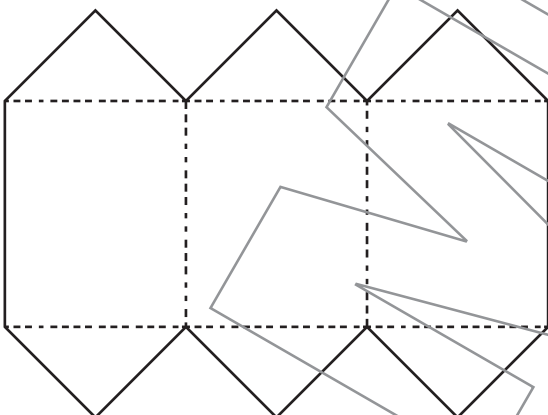
(A)



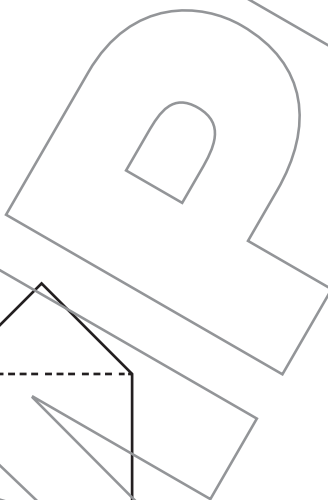
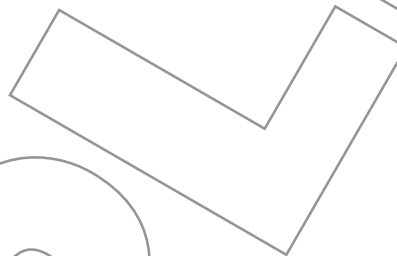
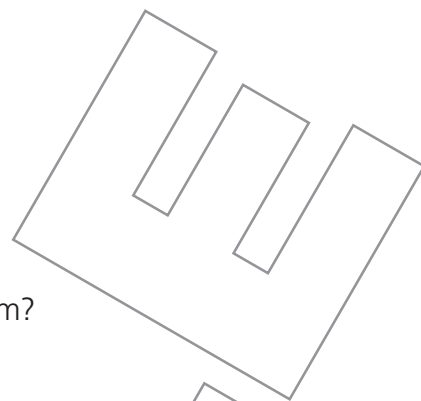
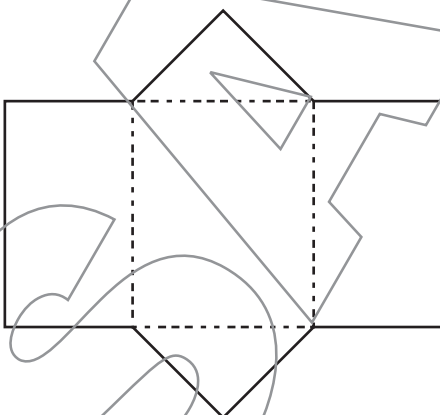
(B)



(C)



(D)



SESSION 2

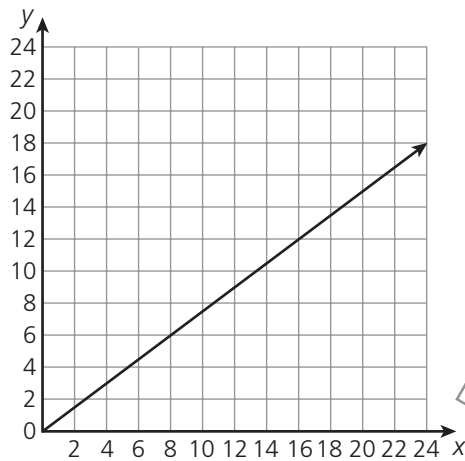
This session contains seven multiple-choice questions, seven short constructed-response items, and one extended constructed-response item. Fill in the circle for your answer to each multiple-choice question. Write your answers for the constructed-response items in the spaces provided.

You may use a protractor and a ruler during this session. You may use a calculator during this session.

SAMPLE

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The graph below shows the relationship between x , the weight in pounds of a package, and y , the cost a company charges to ship the package.



What equation describes the relationship shown in this graph?

- (A) $y = 0.75x$
- (B) $y = x$
- (C) $y = 1.25x$
- (D) $y = 1.33x$

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Look at the expressions in the table below.

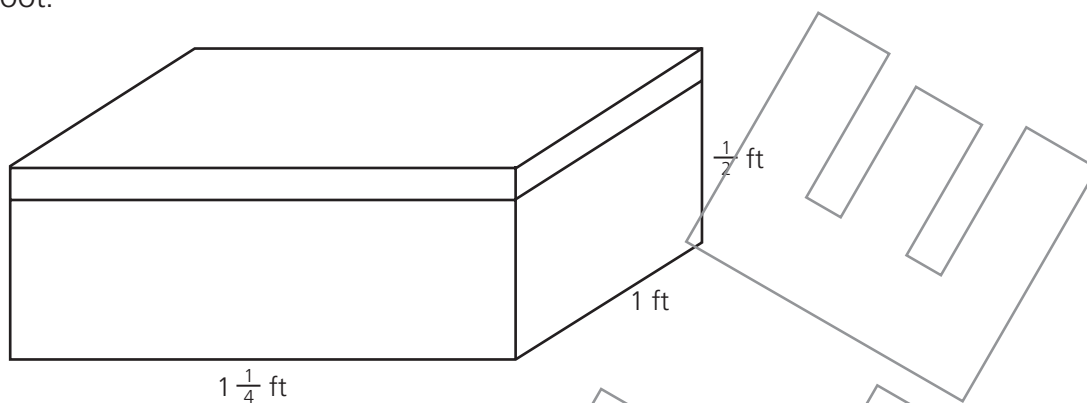
A	$2(-4x + 1) - 5$
B	$-6 + -(8x - 3)$
C	$9x + 3 - x - 6$
D	$\frac{-24x + 27}{3x}$
E	$-4(2x + \frac{3}{4})$
F	$-10x - (4 + 2x)$
G	$\frac{18x + 9}{-3} - 2x$

Which of the expressions in the table above are equivalent?

- (A) A, B, and C
- (B) A, C, E, and G
- (C) B, C, D, and F
- (D) A, B, E, and G

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A shoebox has a length of $1\frac{1}{4}$ feet, a width of 1 foot, and a height of $\frac{1}{2}$ foot.



Part A: Cubes that measure $\frac{1}{4}$ foot on each side are packed into the shoebox. How many of these cubes will fit inside the shoebox?

Show your work.

Answer: _____ cubes

Part B: Based on your answer to Part A, what is the volume, in cubic feet, of the shoebox? (Remember to find the volume of each cube.) Use the formula for the volume of a rectangular prism to show your answer is correct.

Show your work.

Answer: _____ cubic foot

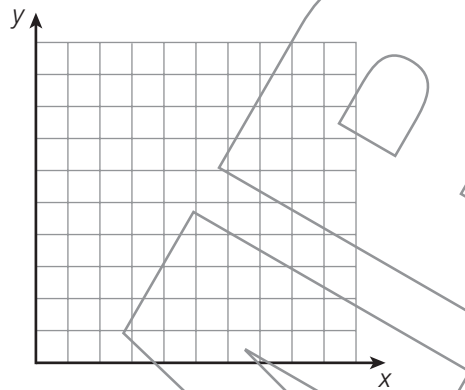
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A faucet drips water at a constant rate. In 5 minutes, a total of 2 ounces of water drips from the faucet.

Part A: Complete this table relating the number of minutes the water drips, x , to the number of ounces of water that drip, y .

x	y
0	
10	
20	

Part B: Plot the points represented in the table above on the coordinate plane. Be sure to number each axis appropriately.



Part C: Write an equation using the variables x and y to model this situation.

Answer: _____