Name:_____ Class/Period:_____

Assignment: Homework #22 Due 4/29 Teacher: Fletcher

1 A store sells cans of tomatoes priced as shown.

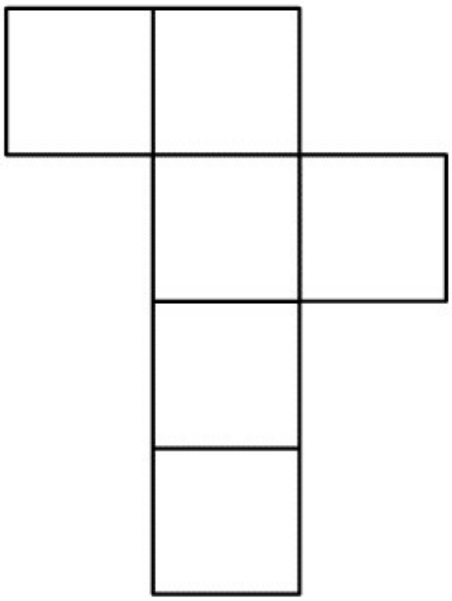
Canned Tomatoes

Size	Cost
10 ounces	$0.89
15 ounces	$1.29
18 ounces	$2.26
32 ounces	$3.39

Which size can of tomatoes has the lowest cost per ounce?

1 10 ounces
2 15 ounces
3 18 ounces
4 32 ounces

2 Karen has a cube that has a side length of 6 in. The net of the cube is shown.



What is the surface area of the cube?

1 36 square inches
2 144 square inches
3 180 square inches
4 216 square inches

3 Sarah earns $400 per week and spends 15% of her earnings on transportation. How much does Sarah spend on transportation every week?

1 $80
2 $75
3 $60
4 $55

4 A set of stickers contains 4 hearts for every 6 stars. Which choice contains an equivalent ratio of hearts to stars?

1 6 hearts to 9 stars
2 2 hearts to 4 stars
3 1 heart to 3 stars
4 8 hearts to 10 stars

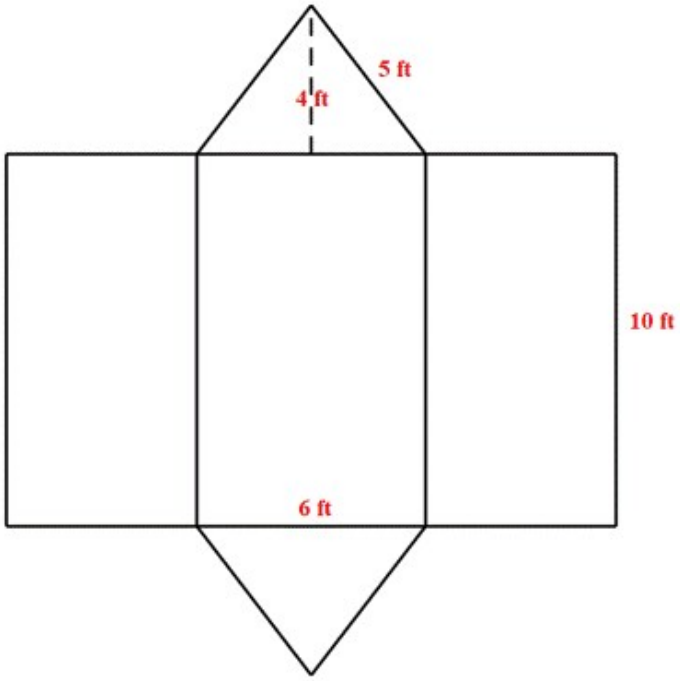
5 In the table, the ratio of y to x is constant.

x	y
2	5
4	10
10	?
18	45

What is the value of the missing number?

1 15
2 20
3 25
4 30

6 A net of a three-dimensional figure is shown.



What is the surface area of the three-dimensional figure?

1 184 ft^2
2 180 ft^2
3 150 ft^2
4 125 ft^2

7 Tonya pays $300 each month to rent an office where she earns $25 per hour tutoring students. Which equation represents Tonya's profit, y, for working x hours?

1 $y = 25 + 300x$
2 $y = 25x + 300$
3 $y = 25 - 300x$
4 $y = 25x - 300$

8 A machine fills boxes at a constant rate. At the end of 35 minutes, it has filled 5 boxes. Which table represents the relationship between the number of minutes the machine fills boxes and the number of boxes it has filled?

1

FILLING BOXES

Time (Minutes)	Boxes Filled
7	1
14	2
21	3
28	4

2

FILLING BOXES

Time (Minutes)	Boxes Filled
5	1
10	2
15	3
20	4

3

FILLING BOXES

Time (Minutes)	Boxes Filled
1	7
2	14
3	21
4	28

4

FILLING BOXES

Time (Minutes)	Boxes Filled
1	5
2	10
3	15
4	20

9 The ratio of passengers to lifeboats on three cruise ships is 20 to 1.Which table shows the correct ratio for each ship?

1

Ship	# of Passengers	# of Lifeboats
1	2000	200
2	3000	300
3	4000	400

2

Ship	# of Passengers	# of Lifeboats
1	2000	100
2	3000	150
3	4000	200

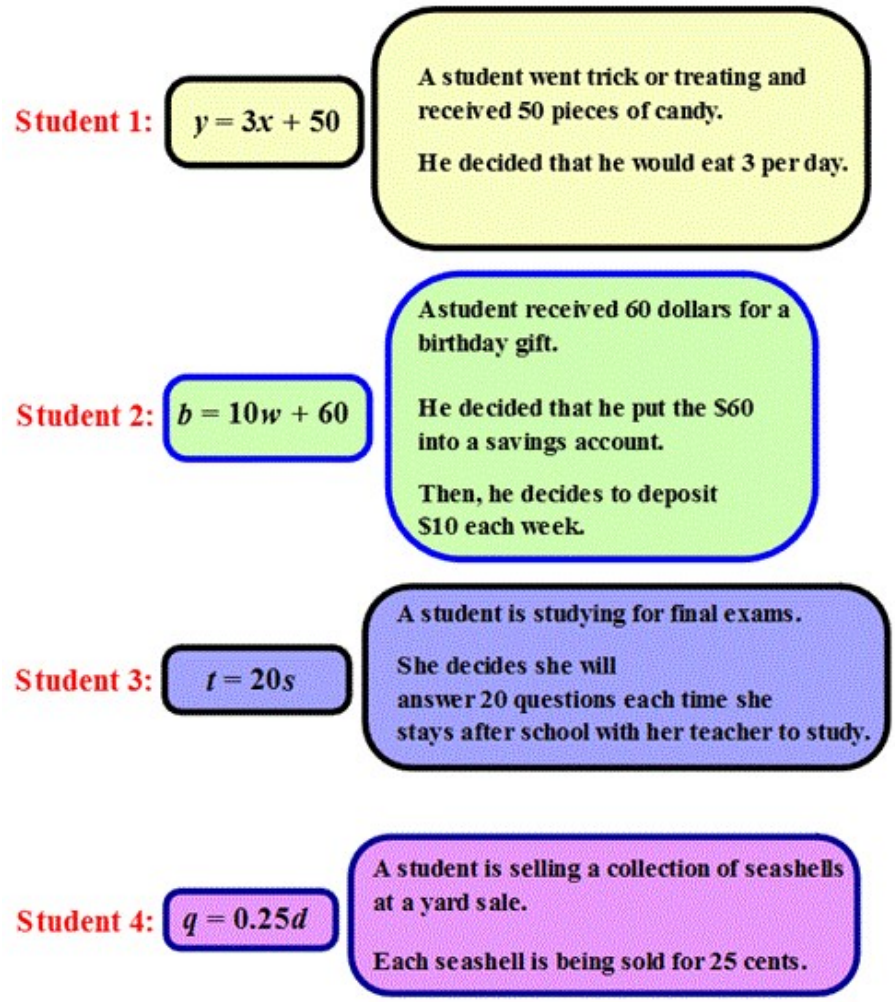
3

Ship	# of Passengers	# of Lifeboats
1	100	2000
2	150	3000
3	200	4000

4

Ship	# of Passengers	# of Lifeboats
1	1000	200
2	2000	400
3	3000	600

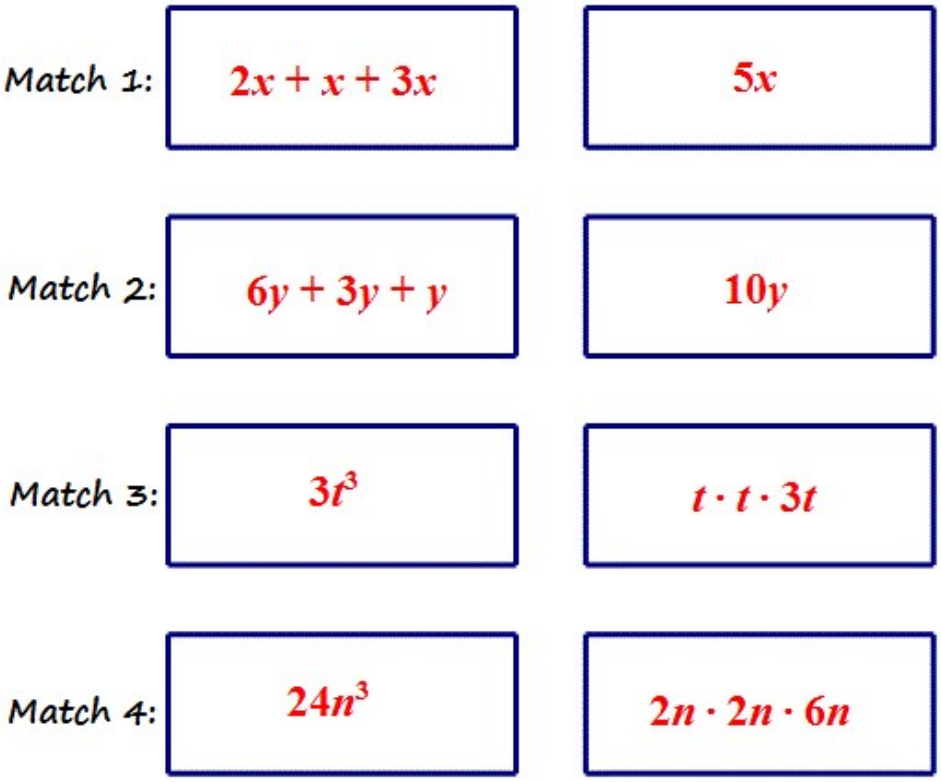
10 Before leaving math class, students were instructed to select a pair of cards from a deck that represented the same situation. Four students pairs are shown below:



Which student did not find a pair of cards that represent the same situation?

1 Student 1
2 Student 2
3 Student 3
4 Student 4

11 You are playing a matching game in math class. To make a match, the expressions on each card must be equivalent expressions.



Which match is incorrect?

1 1
2 2
3 3
4 4