

Dear Rising 6th Graders,

This packet is intended to be used as a summer bridge, or refresher for you. Notice that there are only 20 questions. These problems are intended to jog your memory about concepts and skills we covered in class. If you are having difficulty remembering how to solve the problems, persevere for a bit before seeking guidance.

- 1.) Try to find an entry point think, "Where can I begin? What do I remember? Can I at least start the problem? Will a picture help?". If you are still stuck, go to number 2.
- 2.) Go to Khan Academy and watch a video that focuses on the topic. For example, if you forget how to add fractions with unlike denominators, click on that topic in your Khan Academy course and see if it helps. Then go back and try the problem again.
- 3.) Check your answer on the answer key. If you are incorrect, can you figure out where you may have made an error, or what you could change? Now that you know the answer, TRY to get to that correct solution on your own.

While I am not making this packet mandatory for all, I strongly encourage you to work your way through all of the problems. We tend to forget things over time if we don't apply what we have learned.

If you would like additional practice, or even a challenge or two, you can complete the "Extra Practice" as well. These assignments are not being graded. You get to check your own work. So, you have nothing to lose and a lot to gain by trying each problem. Stimulate your mind! Try just three problems a week. You have got this!

Happy summer!

Be well,

Mrs. Kraska

Section A: Multiple Choice Questions

Choose the correct answer and write its number in the bracket provided.

1. What is $12 \times 10^3 + 5 \times 10^4$?

(1) 125,000

(2) 512,000

(3) 62,000

(4) 17,000

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2. A number becomes 3.99 when rounded to the nearest 0.01.
What is the number?

(1) 3.999

(2) 3.995

(3) 3.984

(4) 3.991

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3. 12 roses cost \$20. How much does 3 roses cost?

(1) \$5

(2) \$12

(3) \$10

(4) \$4

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4. What is $1\frac{3}{5} - \frac{2}{3}$?

(1) $1\frac{1}{2}$

(2) $1\frac{1}{15}$

(3) $\frac{14}{15}$

(4) $\frac{6}{15}$

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5. $\frac{3}{4}$ of a pizza is shared equally among 4 siblings.

What fraction of a pizza did each person get?

(1) $\frac{1}{4}$

(2) $\frac{1}{3}$

(3) $\frac{3}{8}$

(4) $\frac{3}{16}$

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6. What is the algebraic expression that represents 5 less than $6a$?

(1) a

(2) $5 - 6a$

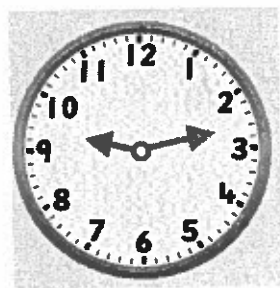
(3) $6a - 5$

(4) $11a$

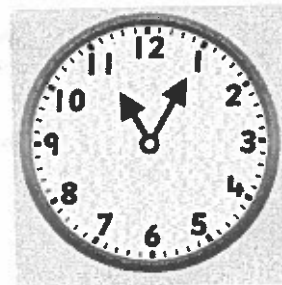
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7. Min Ho spent some time on a Sunday morning to do his homework. The clock below shows the time he started and the time he completed his homework.

How long did he take to complete his homework?



start



end

(1) 102 min

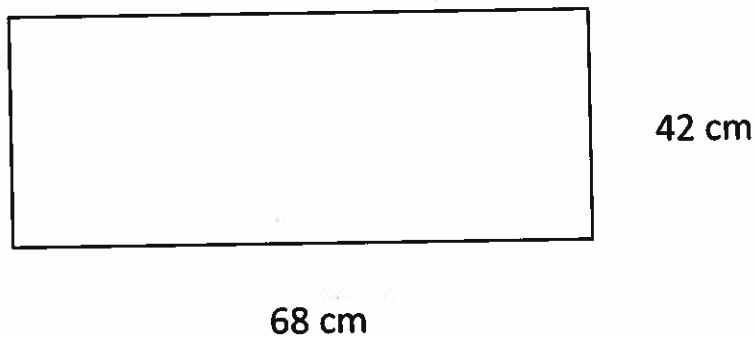
(2) 112 min

(3) 192 min

(4) 208 min

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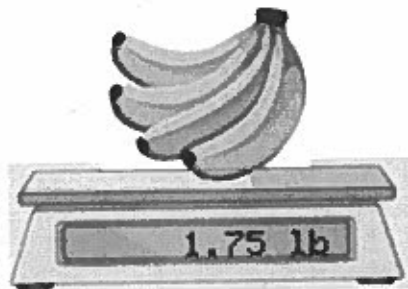
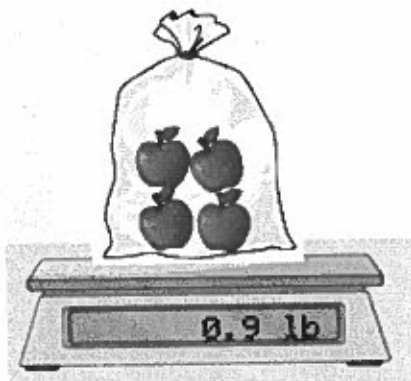
8. What is the perimeter of the rectangle in centimeters?



- (1) 1.1 m
- (2) 2.2 m
- (3) 110 m
- (4) 220 m

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9. What is the total mass of the apples and the bananas?

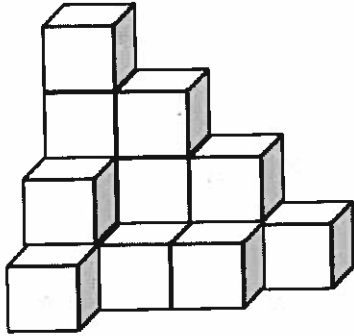


- (1) 0.85 lb
- (2) 2.75 lb
- (3) 1.84 lb
- (4) 2.65 lb

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10. Each  has a volume of 1 cm^3 .

What is the volume of the solid below?



- (1) 13 cm^3
- (2) 14 cm^3
- (3) 15 cm^3
- (4) 16 cm^3

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Section B: Short Answer Questions

Write the correct answer in each blank provided.

11. Calculate.

(a) $1.65 + 2.58 =$

(b) $3.6 - 2.97 =$

(c) $2.84 \times 12 =$

(d) $21.87 \div 9 =$

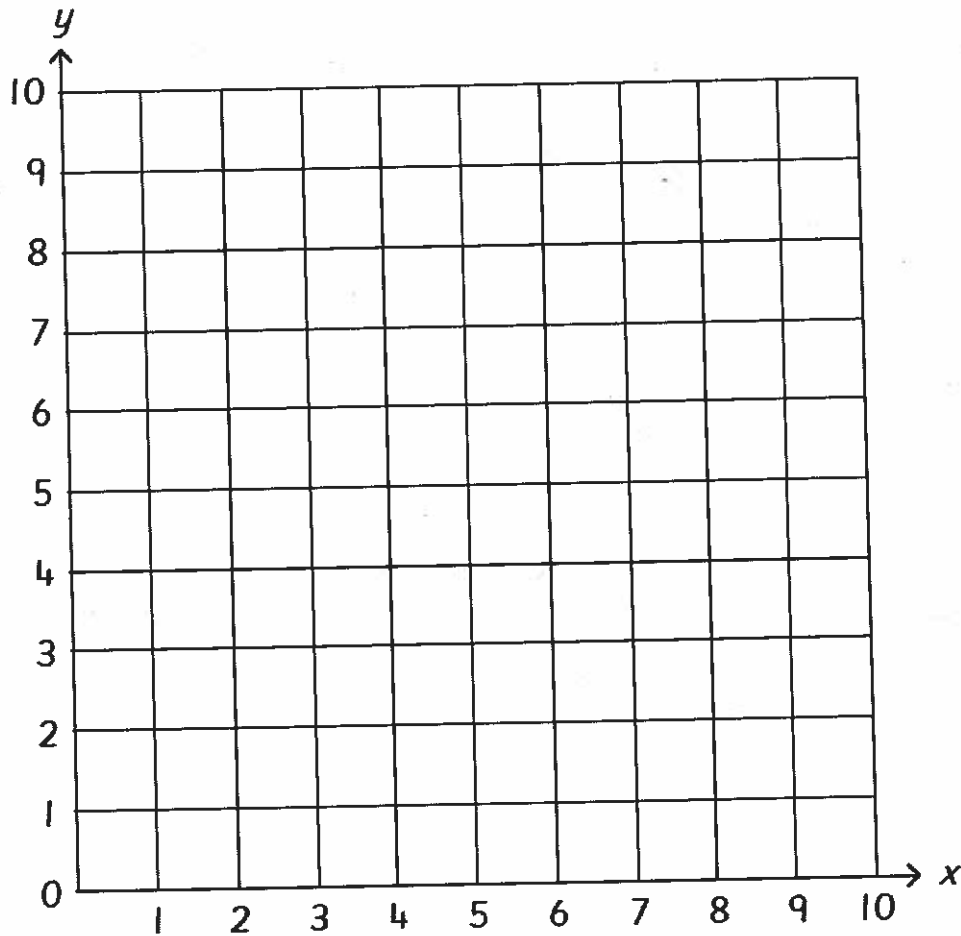
12. Katie mixed $2\frac{4}{5}$ liters of water with $1\frac{1}{4}$ liters of blueberry syrup to make a drink for a party.

How many liters of drink did she make?

13. The coordinates of 4 points, P, Q, R, and S are:

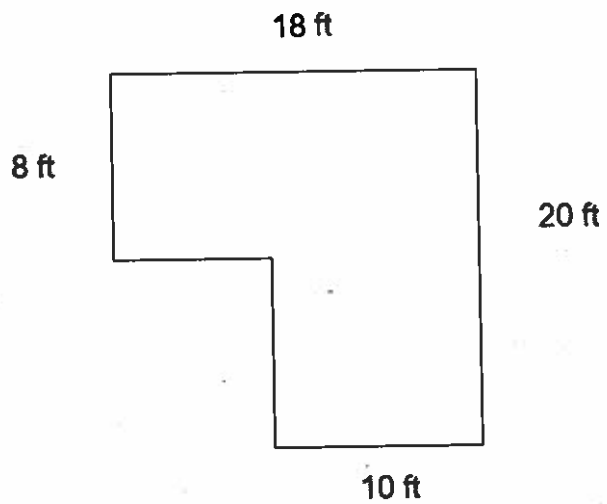
$P(3, 3)$, $Q(3, 8)$, $R(8, 8)$, $S(8, 3)$

(a) Plot and label points P, Q, R, and S.



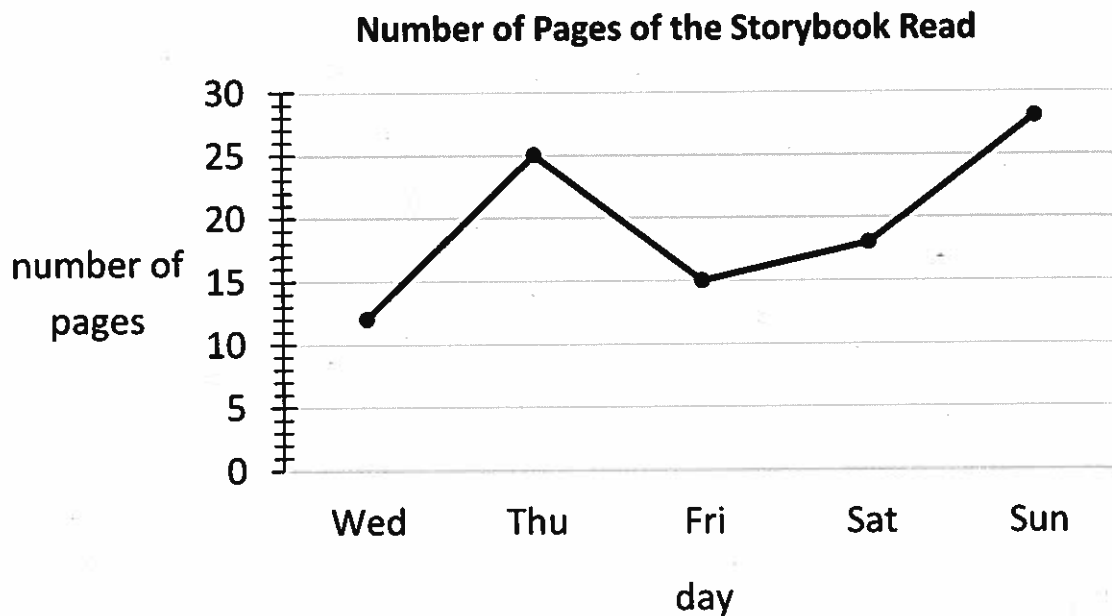
(b) Name the shape that is formed.

14. The floor plan of a room is shown.
The room is 11 ft high.
What is the volume of its space?



15. Chris borrowed a storybook from the library, and finished reading it in five days.

The line graph below shows the number of pages of the storybook Chris read each day from Wednesday to Sunday.



- (a) On which day did Chris read the most number of pages?

How many pages?

- (b) How many pages were there in the storybook?

- (c) On which day did Chris read less pages than the day before?

How many pages less?

16. Sort the shapes listed below, according to the headings.

Square

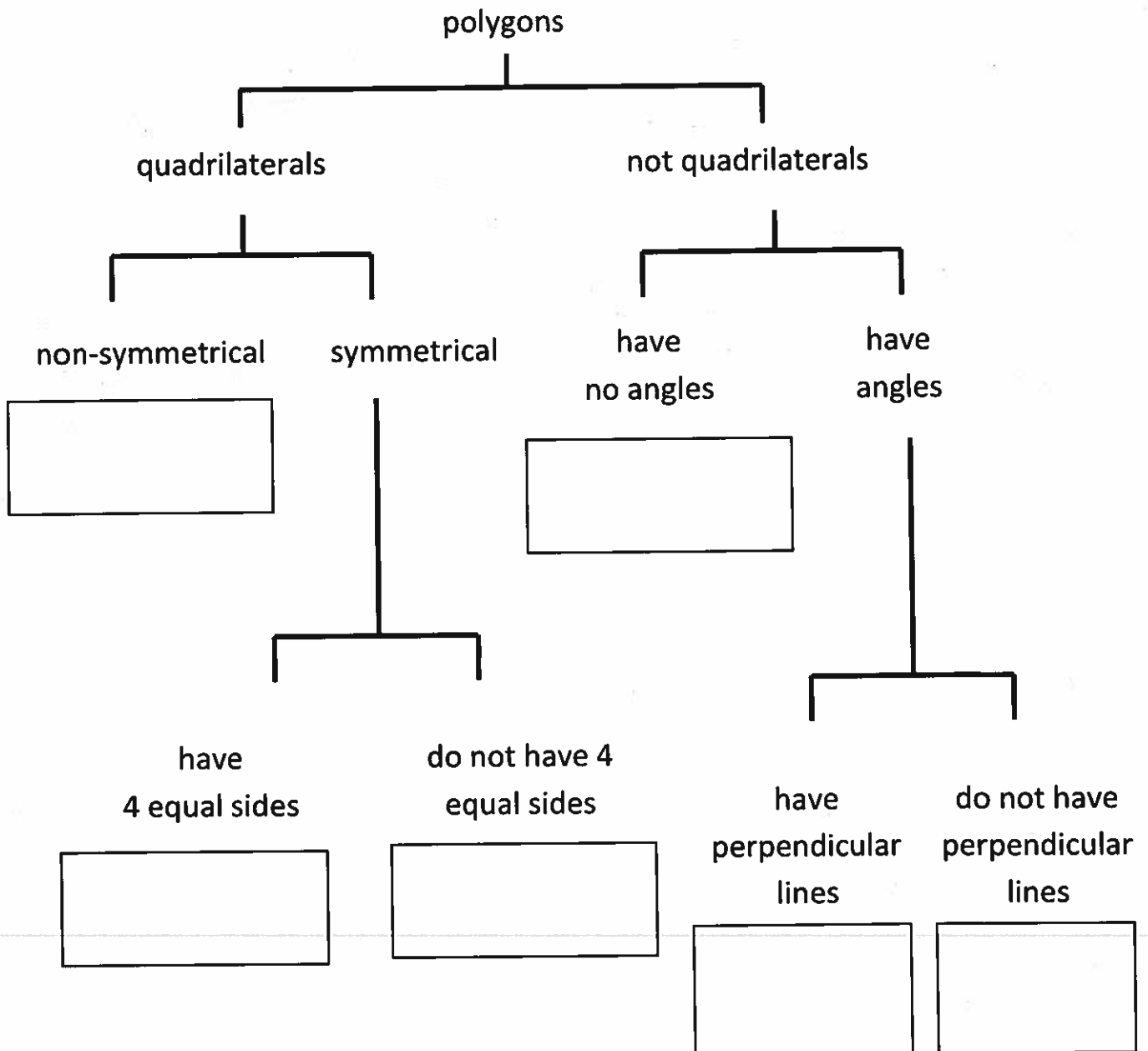
Equilateral triangle

Circle

Right-angled triangle

Rectangle

parallelogram



17. The shapes are arranged according to a rule.

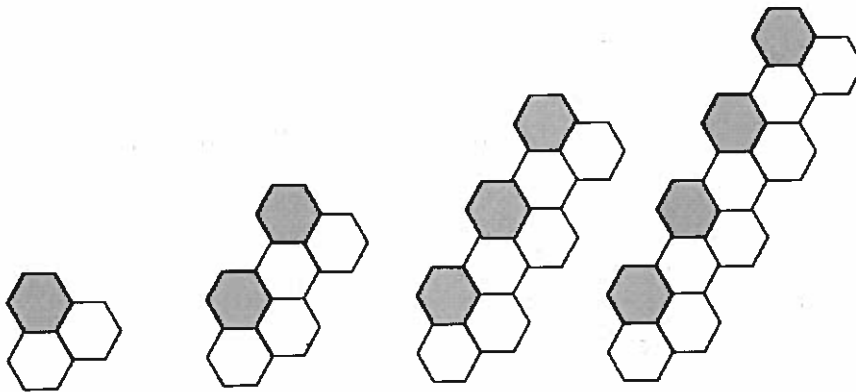


Figure 1

Figure 2

Figure 3

Figure 4

(a) Fill in the blanks.

Figure number	Number of white hexagons	Number of gray hexagons	Total number of hexagons
1	2	1	3
2	4	2	6
3			
4			
5			
11			

(b) Write an algebraic expression to show the total number of hexagons for Figure n .

Section C: Long Structured Questions

Answer each question and show your workings in the space provided when necessary.

18. Leo, Robert, and Min Ho ran a race.

Min Ho finished the race 10 minutes after Robert.

Robert finished the race 8 minutes before Leo.

Leo took twice as much time as Robert to finish the race.

All the 3 boys took 100 min in total to run the race.

(a) How much time did Robert take to complete the race?

(b) If the boys set off from the starting point at 08 25, what time did Leo reach the finishing point?

19. A jug contains 150 ml more water than a bottle.

When 100 ml of water was removed from the jug and the bottle each, the amount of water in the jug was 3 times the amount of water in the bottle.

(a) How much water was there in the jug at first?

(b) How much water was there in both the jug and the bottle in the end?

20. There are 360 chickens, ducks, and cows in a farm altogether.

There are twice as many chickens as cows.

There are 36 more ducks than the total number of chickens and cows.

How many ducks are there?