

## ANSWER KEY for Summer Packet- Rising 6<sup>th</sup> Grade

### 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

( 3 )

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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

( 4 )

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

(1) \$5

(2) \$12

(3) \$10

(4) \$4

( 1 )

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)  $\frac{6}{15}$

( 3 )

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)  $\frac{3}{16}$

( 4 )

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

(1)  $a$

(2)  $5 - 6a$

(3)  $6a - 5$

(4)  $11a$

( 3 )

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

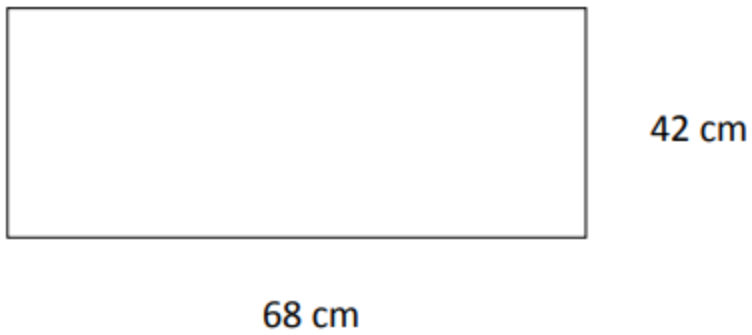
(2) 112 min

(3) 192 min

(4) 208 min

( 2 )

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



(1) 1.1 m

(2) 2.2 m

(3) 110 m

(4) 220 m


( 2 )

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

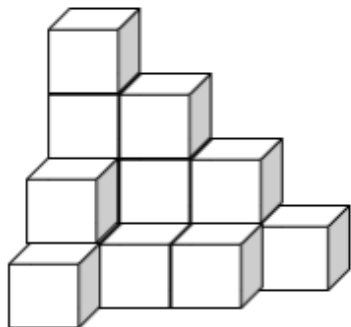


- (1) 0.85 lb
- (2) 2.75 lb
- (3) 1.84 lb
- (4) 2.65 lb

( 4 )

10. Each  has a volume of  $1 \text{ cm}^3$ .

What is the volume of the solid below?



(1)  $13 \text{ cm}^3$

(2)  $14 \text{ cm}^3$

(3)  $15 \text{ cm}^3$

(4)  $16 \text{ cm}^3$

( 3 )

## 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?

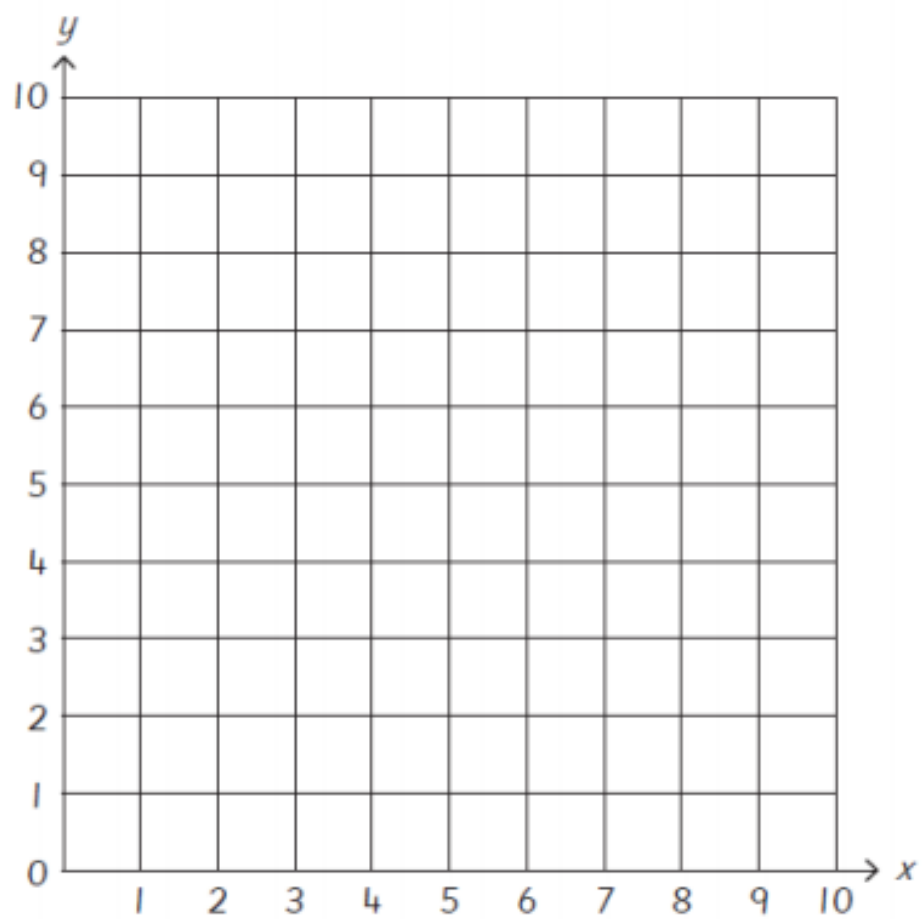
$$\begin{aligned}2\frac{4}{5} + 1\frac{1}{4} &= 2\frac{16}{20} + 1\frac{5}{20} \\ &= 3\frac{21}{20} \\ &= 4\frac{1}{20}\end{aligned}$$

$4\frac{1}{20}$
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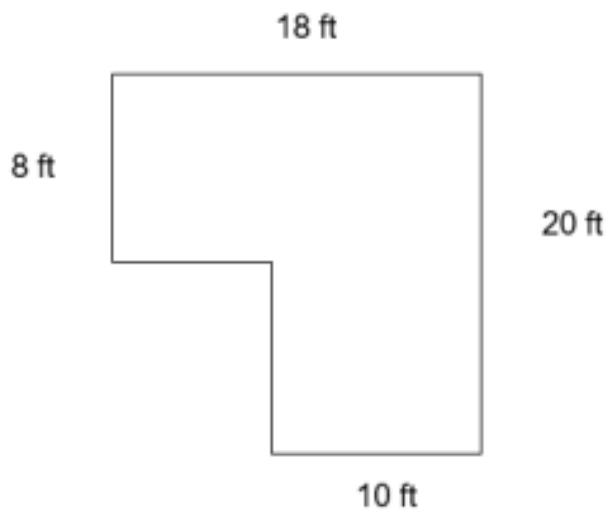
13. The coordinates of 4 points, P, Q, R, and S are:

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

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



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



$$8 \times 18 = 144$$

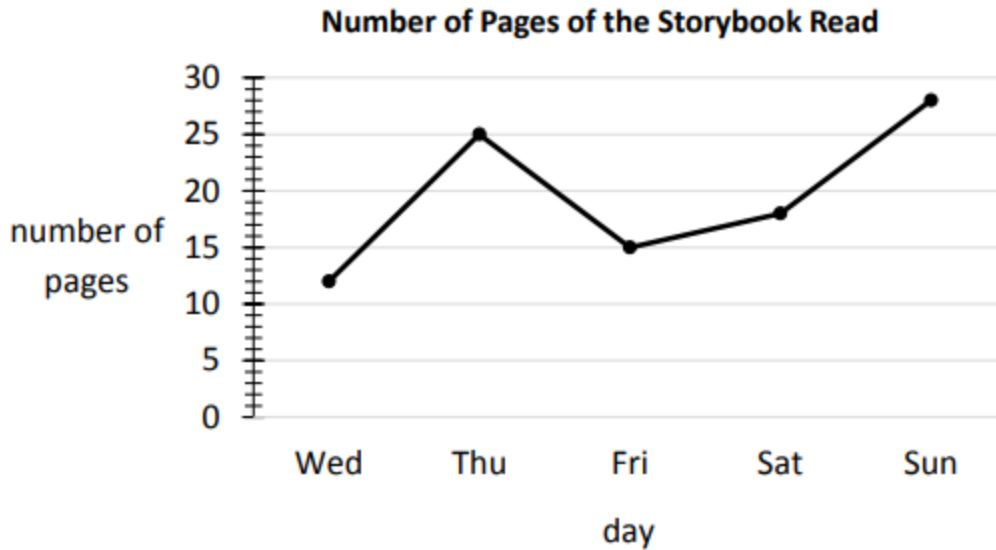
$$10 \times 12 = 120$$

$$144 + 120 = 264$$

$$264 \times 11 = 2,904$$

The volume of its space is 2,904 ft<sup>3</sup>.

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?

Sunday, 28 pages

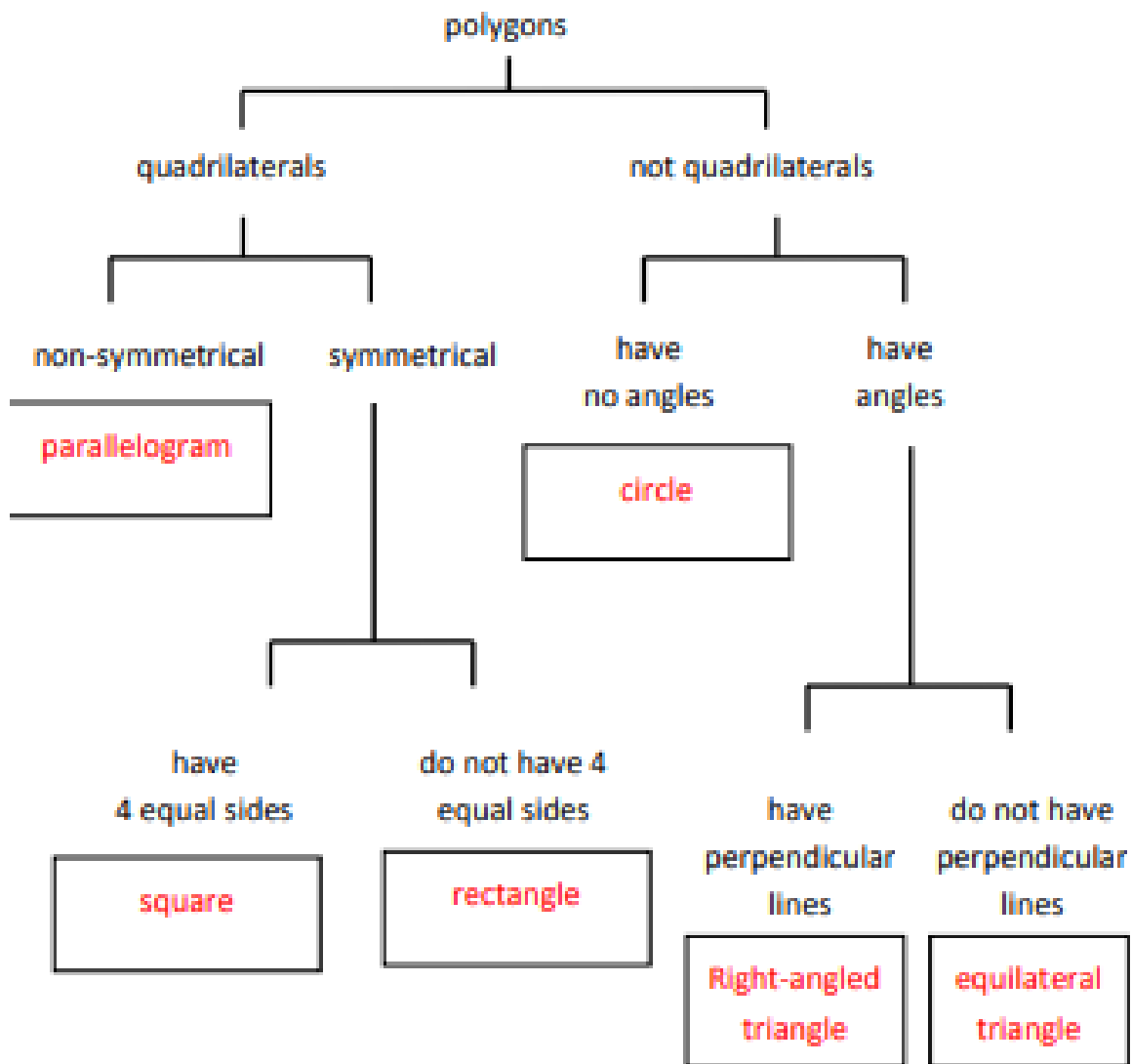
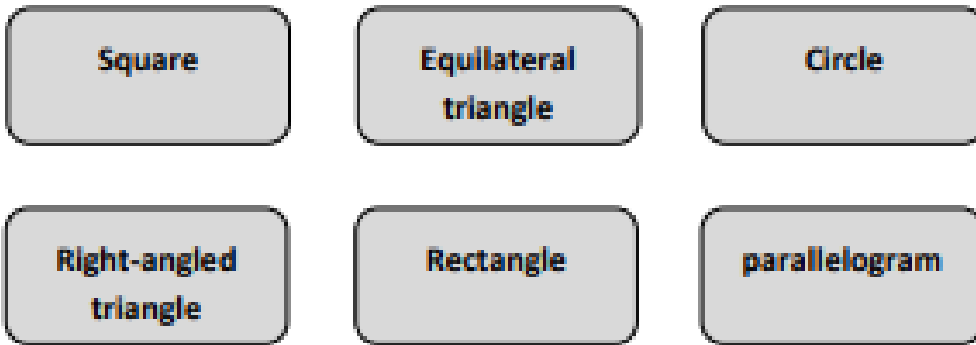
- (b) How many pages were there in the storybook?

98

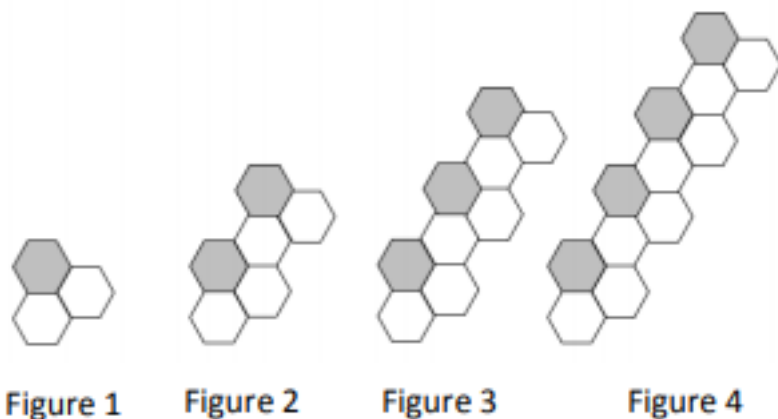
- (c) On which day did Chris read less pages than the day before?  
How many pages less?

Friday, 10 pages less

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



17. The shapes are arranged according to a rule.



(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	6	3	9
4	8	4	12
5	10	5	15
11	22	11	33

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?

$$100 - 10 = 90$$

$$90 \div 4 = 22.5$$

Robert took 22.5 min 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?

$$22.5 \times 2 = 45$$

Leo reached the finishing point at 09 10.

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?

$$150 \div 2 = 75$$

$$75 \times 3 = 225$$

$$225 + 100 = 325$$

There was 325 ml of water in the jug at first.

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

$$75 \times 4 = 300$$

There was 300 ml of water 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?

$$360 - 36 = 324$$

$$324 \div 6 = 54$$

$$54 \times 3 = 162$$

$$162 + 36 = 198$$

There are 198 ducks.