Practice Test – Grade 6 Math Answer Key

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answers(s)
1	Multiple Choice	6.1.7.D	1	D
2	Multiple Choice	6.2.3.D	1	A
3	Hot Text	6.3.8.C	2	3*w*, 8(3)(*w*) See Appendix 1.1
4	Multiple Choice	6.2.10.A	1	B
5	Multiple Choice	6.4.14.A	1	A
6	Multiple Choice	6.1.7.A	1	C
7	Multiple Choice	6.2.4.A	1	D
8	Table Match	6.4.13.A	2	False, True, False See Appendix 1.2
9	Multiple Choice	6.2.4.B	1	C
10	Multiple Choice	6.1.5.C	1	A
11	Multiple Select	6.2.3.E	2	C, E See Appendix 1.3
12	Multiple Choice	6.1.2.B	1	B
13	Hotspot	6.2.6.C	2	c = 18t, table on the left See Appendix 1.4
14	Multiple Choice	6.4.12.D	1	C
15	Inline Choice	6.2.9.B	2	an open, is not, right See Appendix 1.5
16	Multiple Choice	6.3.4.H	1	D
17	Multiple Choice	6.1.7.A	1	B
18	Multiple Choice	6.2.6.B	1	A
19	Multiple Choice	6.3.8.D	1	D
20	Multiple Choice	6.4.13.A	1	B
21	Multiple Choice	6.2.4.B	1	D
22	Multiple Choice	6.4.14.G	1	A
23	Equation	6.1.4.G	1	0.875 See Appendix 1.6
24	Multiple Choice	6.2.9.C	1	A
25	Multiple Choice	6.1.2.D	1	C
26	Multiple Choice	6.3.8.A	1	B
27	Multiple Choice	6.2.3.D	1	B
28	Hot Text	6.1.4.E	2	3/5, 60% See Appendix 1.7

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answers(s)
29	Hotspot	6.3.11.A	2	(4, 3) (3, -4) See Appendix 1.8
30	Multiple Choice	6.2.3.A	1	A
31	Multiple Choice	6.4.14.E	1	C
32	Equation	6.2.10.A	1	34.62 See Appendix 1.9
33	Multiple Choice	6.4.12.D	1	B
34	Multiple Choice	6.2.5.B	1	B
35	Multiple Choice	6.3.4.H	1	C
36	Multiple Choice	6.1.2.D	1	D

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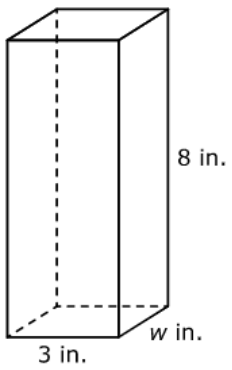
Appendix

1.1

The figure shows a right rectangular prism with its dimensions in inches.



Complete each statement about the prism.

Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used.

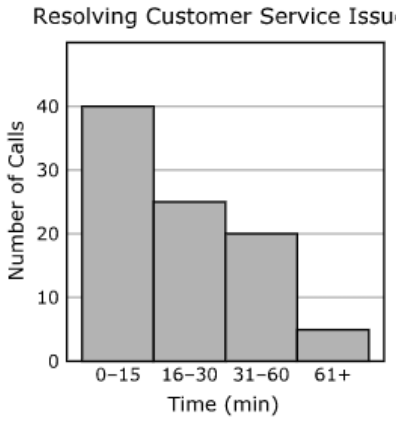
$w + 3$ | $2(w + 3)$ | $3w$ | $8(3)(w)$ | $8 + 3w$ | $8 + 3 + w$

The area of the base of the prism is [$3w$] square inches.

The volume of the prism is [$8(3)(w)$] cubic inches.

1.2

The histogram shows the time in minutes it took for a business to resolve customer service issues that were called in.



Determine whether each statement is true or false based on the data in the histogram.

Select the correct answer in each row.

Resolving Customer Service Issues

Statement	True	False
It took between 16 and 30 minutes to resolve issues for each of 30 calls.	☐	☑
It took more than 30 minutes to resolve issues for each of 25 calls.	☑	☐
The greatest number of customer service issues were resolved in 61 minutes or more.	☐	☑

1.3

Which expressions have a value of 15.4?

Select **TWO** correct answers.

- [ ] $5.4\left(3\frac{2}{3}\right)$
- [ ] $45.12 \div \frac{1}{3}$
- [x] $3.85 \div 0.25$
- [ ] $30.8\,(2.5)$
- [x] $9.24 \div \frac{3}{5}$

1.4

The cost of 54 tickets to a water park is $972. Each ticket costs the same amount.

Which table or equation represents the relationship between the number of tickets, t, and the total cost of the tickets, c?

Select **TWO** correct answers.

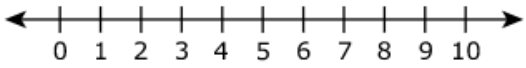
- [ ] $t = 18c$
- [ ] $c = 54t$
- [ ] $t = 54c$
- [x] $c = 18t$

t	c
12	216
15	270
18	324

t	c
10	540
12	648
14	756

1.5

A student is drawing a ray on the number line shown to represent the solution to the inequality $10x > 60$.



Describe the ray that the student should draw.

Choose the correct answer from each drop-down menu to complete the statements.

The endpoint of the ray should be [an open] circle placed on 6.

The endpoint at 6 [is not] part of the solution set.

The ray should point to the [right].

1.6

The owner of a food truck noted that 7 out of 8 customers ordered a drink with their lunch. What decimal is equivalent to the fraction of customers who ordered a drink with their lunch?

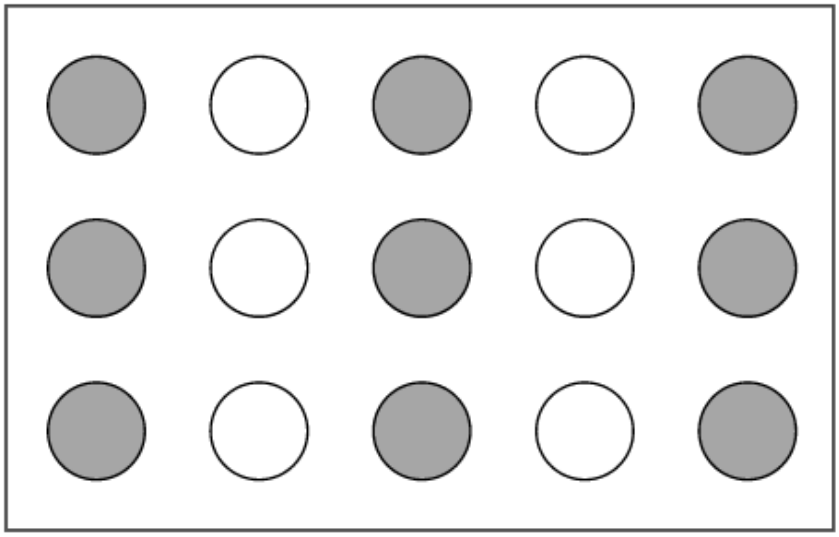
Enter your answer in the space provided.

0.875

1	2	3
4	5	6
7	8	9
	0	
.	-	

1.7

The game board shown has shaded circles and unshaded circles.



What fraction and percentage represent the portion of the game board circles that are shaded?

Move the correct answer to each box. Not all answers will be used.

$\frac{6}{15}$ $\frac{9}{10}$ $\frac{3}{5}$ 90% 40% 60%

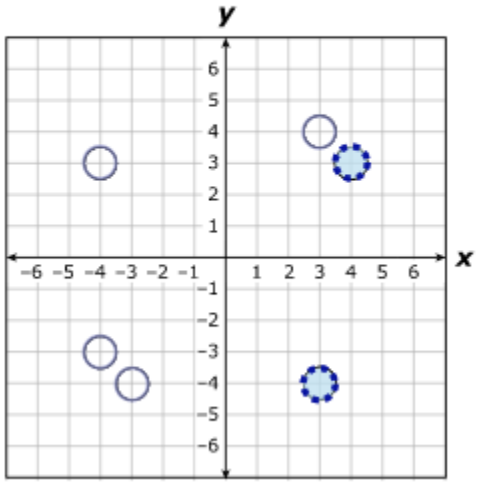
Fraction: $\frac{3}{5}$

Percentage: 60%

1.8

What are the locations of points (4, 3) and (3, –4) on the coordinate grid?

Select **TWO** correct answers.



1.9

What value of x makes this equation true?

$$x + 72.08 = 106.7$$

Enter your answer in the space provided.

34.62

1 2 3
4 5 6
7 8 9
0
.