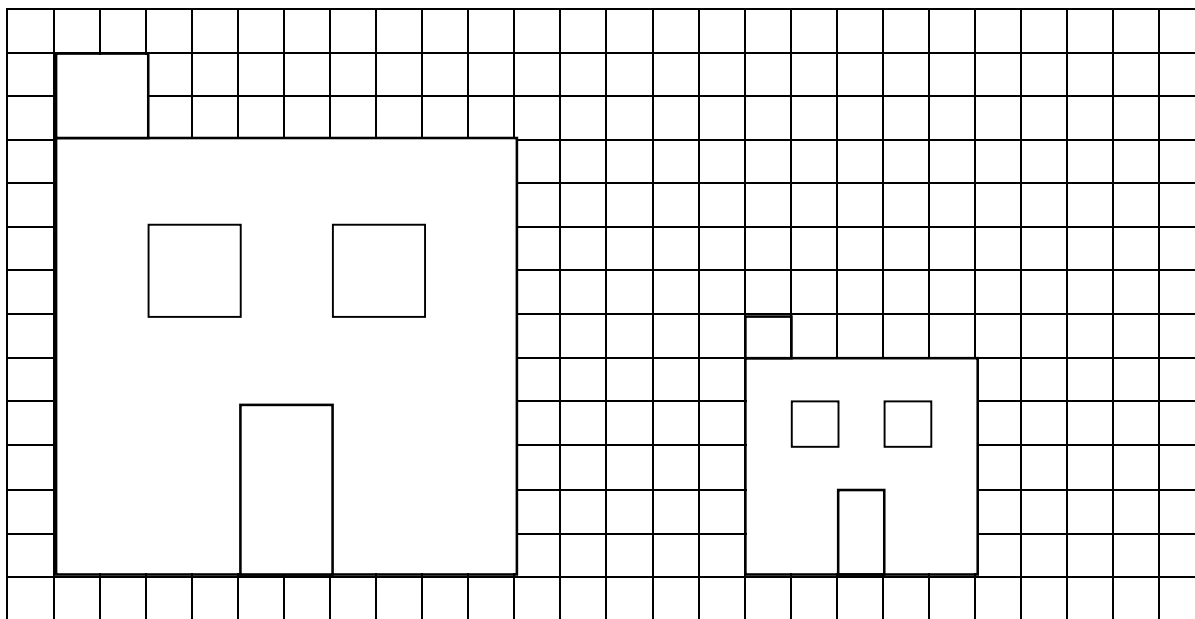


Number Concepts for Middle School (6 - 8)

Answer Key and Scoring Guide

<u>Item</u>	<u>Value</u>	<u>Answer</u>
1.	(1 point)	$\left(\frac{1}{6}\right)^3$
2.	(1 point)	a. 32 b. $\frac{1}{27}$ c. .09 d. $\frac{1}{625}$ e. 1 f. -343
3.	(.5 points each)	$\frac{1}{2}, \frac{1}{4}$
4.	(1 point)	$2^3 \cdot 3 \cdot 5 \cdot 7$
5.	(1 point)	90
6.	(1 point)	$1\frac{2}{15}$
7.	(1 point)	Possible solutions: 120 minutes 2 hours
8.	(1 point)	43.96 units
9.	(1 point)	Possible solutions: 28.29 units $28\frac{2}{7}$ units
10.	(1 point)	16.56 units
11.	(1 point)	8.75 units
12.	(1 point)	.15
13.	(1 point)	$\overline{.53}$
14a.	(1 point)	repeat
14b.	(1 point)	terminate
15a.	(1 point)	.6
15b.	(1 point)	.48

16. (1 point) Possible solutions:
 10:22 5:11
 10 to 22 5 to 11
 $\frac{10}{22}$ $\frac{5}{11}$
17. (1 point) Possible solutions:
 3:4 18:24 9:12
 3 to 4 18 to 24 9 to 12
 $\frac{3}{4}$ $\frac{18}{24}$ $\frac{9}{12}$
18. (1 point) 9 feet
19. (1 point) 3 milligrams
- 20a. (1 point) 11.25
- 20b. (1 point) 13.5
21. (1 point) Solution:



- 22a. (1 point) 4
- 22b. (1 point) 15