

Must-Know Math: 25 Activities to Build Key Skills in 6th Grade

Answer Key

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(1) 380; (2) 2,300; (3) 5.5; (4) 6; (5) 9; (6) 50; (7) 65.09;
 (8) 25.8; (9) 10; (10) 68.4; (11) 4; (12) 40; (13) 702
 Zero's message: to a great start

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	A	2	5		B	1	C	7		
D	1	6		E	8		F	2	G	4
	8		H	4	8	I	6		9	
	J	7	7		K	3	6			
L	7		M	5	N	2	0		O	5
P	6	8		1		R	3	4		
	S	1	9		T	5	7			

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(1) \$53,743,249; (2) \$54,000,000; (3) $(1 \times 10^7) + (8 \times 10^6) + (6 \times 10^5) + (4 \times 10^4) + (2 \times 10^3) + (3 \times 10^2) + (1 \times 10^1) + (8 \times 10^0)$;
 (4) \$126,000,000; (5) $(8 \times 10^7) + (6 \times 10^6) + (6 \times 10^5)$

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Answers from top to bottom, left to right: 4.09, loon;
 0.75, dog and pony; $\frac{3}{10}$, elephant; $\frac{21}{25}$, bear; $\frac{1}{5}$, clam;
 $9\frac{1}{25}$, turkey; 8.9, crocodile; 2.005, hawk; $1\frac{1}{4}$, ants

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(1) 3.5; (2) 0.62; (3) $\frac{5}{6}$; (4) 0.45; (5) $\frac{2}{3}$; (6) 125%;
 (7) 17%, $\frac{17}{100}$; (8) 4.2, 420%; (9) $\frac{7}{20}$, 0.35; (10) 2.04, $\frac{12}{5}$
 Letters: WNAEDR STNLMECE. Answer: Andrew Clements

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Black Bean Salad to serve 12, from top to bottom:
 $5\frac{1}{2}$; $1\frac{1}{3}$; 1; $1\frac{1}{2}$; 2; $1\frac{1}{2}$; 1; $\frac{1}{2}$; 4; 6
 Chili to serve 12, from top to bottom: $\frac{3}{4}$; 6; 42; 6; 3; $3\frac{3}{4}$;
 3; $\frac{3}{4}$; $\frac{3}{8}$; $\frac{1}{2}$; $1\frac{1}{2}$; $2\frac{1}{4}$

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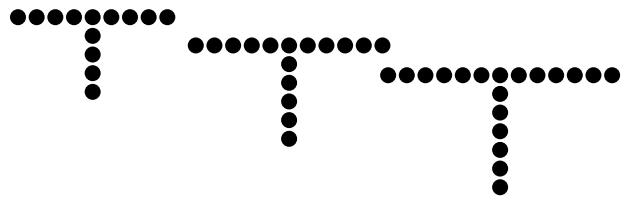
(1) $1\frac{2}{5}$; (2) $\frac{3}{5}$; (3) $2\frac{1}{2}$; (4) $3\frac{3}{10}$; (5) $\frac{9}{20}$; (6) 2; (7) $22\frac{1}{2}$;
 (8) $1\frac{1}{2}$; (9) 10; (10) $\frac{19}{24}$; (11) $\frac{1}{3}$; (12) 3; (13) $1\frac{1}{5}$; (14) 1;
 (15) $1\frac{5}{9}$
 The Rule: The denominator of a fraction can't be zero!

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(1) 5 minutes; (2) 8:37 a.m.; (3) 12:13 p.m.;
 (4) 3 minutes 51 seconds; (5) 42 minutes; (6) 1 hour 5 minutes longer; (7) 2:04 p.m.; (8) 5:25 p.m.

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(1) 575, 685, 795; (2) ML, JI, GF; (3) 221, 445, 893;
 (4) Any 6-sided figure, any 7-sided figure, any 8-sided figure;
 (5) 132, 105, 78;
 (6)



(7) $14x-19$, $17x-23$; $20x-27$

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(1) 16 oz. from top to bottom: \$4.75, \$4.78, \$4.25, \$1.50;
 24 oz. from top to bottom: \$6.13, \$6.13, \$5.50 and \$6.50,
 \$1.75 (2) 78 smoothies; (3) a. 146, 151, 141, 155;
 b. 148; c. 124, 143, 155, 142, 155, 157, 164 (4) 6 cups;
 (5) a. 3 cups; b. 5 cups

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Projected visits from top to bottom: 1,082,400; 600,000;
 691,200; 6,480,000; 1,152,000; 4,800,000; 1,365,600;
 7,200,000; 2,352,000; 1,610,400

