

Saxon Math Course 2 Summer Answer Key

Practice Set 1

a)	\$0.45 per glass or 45¢ per glass
b)	0
c)	2
d)	\$5.35
e)	\$1.53
f)	\$3.25
g)	6000
h)	\$4.80
i)	13
j)	24
k)	16
l)	80
m)	5
n-s)	Answers will vary

2)	17
4)	3
6)	a. 16 b. 8 c. 48 d. 3
8)	2368
10)	1292
12)	5688
14)	12,000
16)	309
18)	30 R17
20)	\$7.66
22)	\$200.00
24)	40
26)	Natural Numbers
28)	All Counting numbers are whole numbers.
30)	Minuend - subtrahend = difference

Practice Set 2

a)	The additive identity is zero. The multiplicative identity is 1.
b)	Division
c)	$(x + y) + z = x + (y + z)$ Numerical answers may vary
d)	Commutative Property of multiplication
e)	12
f)	12
g)	2
h)	8
i)	60
j)	60
k)	1
l)	4
m)	Step 1: Commutative Property of Multiplication Step 2: Associative Property of multiplication Step 3: Multiplied 5 by 2 Step 4: Multiplied 10 by 14

2)	\$0.04 or 4¢
4)	Subtraction
6)	$3 \times 5 = 15$, $5 \times 3 = 15$, $15 \div 3 = 5$, $15 \div 5 = 3$
8)	\$5.21
10)	\$3.75
12)	\$4.37
14)	207
16)	27
18)	\$37.50
20)	2639
22)	56,000
24)	120
26)	\$13.50
28)	a. 15 b. 54 c. 6 d. 21
30)	Dividend \div Divisor = Quotient

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Practice Set 3

a)	a = 19
b)	b = 39
c)	c = 12
d)	d = 96
e)	e = 30
f)	f = 17
g)	g = 31
h)	h = 52
i)	i = 6
j)	j = 4
k)	Answers will vary

2)	Add the subtrahend and the difference to find the minuend.
4)	14
6)	a. Commutative Property b. Associative Property
8)	r = 69
10)	z = 173
12)	n = 16
14)	x = 42,000
16)	12
18)	\$32.10
20)	1833
22)	813
24)	5104
26)	158
28)	60 R 4
30)	One is the multiplicative Identity because when any given number is multiplied by 1, the product is identical to the given number.

Early Finishers

a.	x = \$1.00
b.	x = \$3.25

Practice Set 4

a)	$4 + 2 = 6$
b)	$4 - 2 = 2$
c)	$2 + -4 = -2$
d)	-3, -2, -1, 0
e)	$2 + 3 < 2 \times 3$
f)	$3 - 4 < 4 - 3$
g)	$2 \cdot 2 = 2 + 2$
h)	Simplify each expression before comparing them.
i)	0
j)	-194
k)	-2, -3, -4
l)	64, 81, 100
m)	Each term in the sequence can be found by doubling the preceding term; 16, 32, 64
n)	1, 3, 5, 7

2)	18
4)	a. 18 b. -18 c. 4 d. 144
6)	$5 \cdot 2 > 5 + 2$
8)	-1
10)	n = 12
12)	m = 899
14)	k = 7
16)	a. Commutative Property b. Associative Property
18)	\$63.51
20)	210
22)	24,000
24)	-27
26)	\$1.10
28)	\$112.50
30)	Each term in the sequence can be found by multiplying the preceding term by ten: 1000 and 10,000

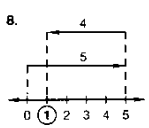
Early Finishers

a.	\$46.29
b.	yes, $2(\$16.88) + \$12.25 = \$46.01$, $\$46.29 > \46.01

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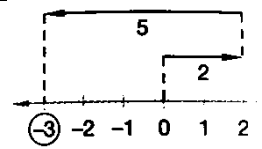
Practice Set 5

a)	3
b)	Billions
c)	$(2 \times 1000) + (5 \times 100)$
d)	Thirty-six million, four hundred twenty-seven thousand, five hundred eighty
e)	Forty million, three hundred two thousand, ten
f)	Commas separate periods in a number. In d and e place a comma after the thousands and millions.
g)	25,206, 040
h)	50,402,100,000
i)	\$15,000,000,000
j)	\$15 million

2)	$101,000 > 1100$
4)	2
6)	$>$; Negative twelve is greater than negative fifteen.
8)	<p>Draw a number line. Start at the origin and draw an arrow 5 units long to the right. From this point draw an arrow 4 units long to the left. The second arrow ends at 1 showing $5 - 4 = 1$. Circle the number 1.</p> 
10)	$n = 32$
12)	$b = 28$
14)	$d = 3600$
16)	$(7 \times 100,000) + (5 \times 10,000)$
18)	6247
20)	\$195.26
22)	4
24)	405
26)	\$10.44
28)	Each term in the sequence can be found by subtracting two from the preceding term; 0, -2, -4
30)	$\{ \dots, -6, -4, -2 \}$

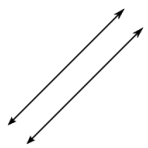
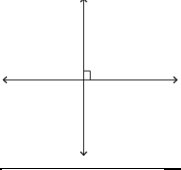
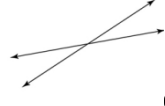
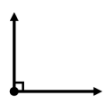
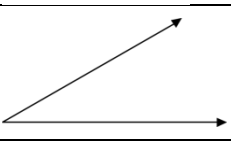

Practice Set 6

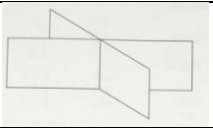
a)	1, 5, 25
b)	1, 23
c)	1 and 24, 2 and 12, 3 and 8, 4 and 6
d)	1, 2, 3, 4, 5, 6, 7, 9, 10
e)	1, 2, 3, 4, 5, 6, 7, 10
f)	1, 2, 3, 4, 5, 6, 8, 9, 10
g)	1, 2, 3, 4, 6
h)	1, 2, 4, 5, 7, 8
i)	1, 2, 4
j)	8
k)	Sample answer: List the factors of 24 and 40 and circle the common factors.

2)	1, 2, 5, 10
4)	407,006,962
6)	$>$, Negative seven is greater than negative eleven.
8)	
10)	\$5.40
12)	$z = \$6.25$
14)	$k = 1339$
16)	$z = 256$
18)	40,000
20)	96,300
22)	1001
24)	\$22.97
26)	2240
28)	\$4.35
30)	<ul style="list-style-type: none"> a. Associative Property b. Commutative Property c. Associative Property

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Practice Set 7

a)	Point A
b)	4 cm
c)	
d)	
e)	 oblique
f)	
g)	
h)	
i)	Perpendicular
j)	Sample answer: the floor and the ceiling; walls that face each other.
k)	Sample answer: the floor and a wall; the ceiling and a wall
l)	line
m)	c. skewed
n)	Show work

14)	$w = 530$
16)	$w = 4000$
18)	The quotient does not have a remainder. (The remainder is zero.) A number is divisible by 9 if the sum of its digits is divisible by 9. The sum of the digits in 4554 is 18, which is divisible by 9.
20)	18,088
22)	\$1.70
24)	$200 > 2$
26)	a. $\angle BMC$ or $\angle CMB$ b. $\angle AMC$ or $\angle CMA$
28)	\overline{XY} or \overline{YX} , \overline{YZ} or \overline{ZY} , \overline{XZ} or \overline{ZX}
30)	




Early Finishers

a)	64, 62, 66, 60, 68, 63, 61, 66
b)	60, 61, 62, 63, 64, 66, 66, 68
c)	four; 62, 60, 63, 61

2)	Identity property of multiplication
4)	$2 - 5 = -3$
6)	1, 2, 3, 4, 5, 6, 7
8)	This is a sequence of perfect squares. 121, 144, 169
10)	a. 1, 2, 4, 8 b. 8
12)	$z = 34$

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Practice Set 8

a)	$\frac{3}{5}$
b)	60%
c)	50%
d)	
e)	
f)	
g)	$4\frac{2}{3}$
h)	$13\frac{1}{4}$
i)	$3\frac{5}{16}$ in.
j)	$\frac{1}{16}$ inch
k)	$\frac{1}{16}, \frac{1}{8}, \frac{1}{4}, \frac{1}{2}$

2)	$XY = 2\frac{1}{4}$ in. $YZ = 1\frac{1}{16}$ in.
4)	1, 2, 3, 4, 5, 6, 7, 8
6)	a. $3 + 2 = 2 + 3$ b. Commutative Property of Addition
8)	a. $\frac{3}{8}$ b. $\frac{5}{8}$
10)	Denominator
12)	$b = \$34.52$
14)	$d = 4580$
16)	$f = 14$
18)	200,000
20)	4743
22)	1000
24)	576
26)	a. $k = 29$ b. add 3
28)	Acute: $\angle CBA$ or $\angle ABC$ Obtuse: $\angle DAB$ or $\angle BAD$ Right: $\angle CDA$ or $\angle ADC$ and $\angle DCB$ or $\angle BCD$
30)	\overline{QR} identifies the segment QR, while QR refers to the distance from Q to R. So \overline{QR} is a segment and QR is a length.

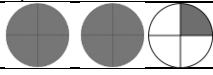
Practice Set 9

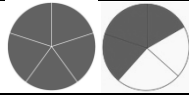
a)	1	j)	$\frac{7}{8}$
b)	$\frac{1}{5}$	k)	$\frac{1}{5}$
c)	$\frac{9}{40}$	l)	$\frac{8}{5}$
d)	$\frac{8}{3}$	m)	$\frac{1}{6}$
e)	$\frac{8}{21}$	n)	$\frac{1}{20}$ of an inch because $\frac{1}{2}$ of $\frac{1}{10}$ is $\frac{1}{20}$
f)	0	o)	$\frac{3}{2}$
g)	$28\frac{4}{7}\%$	p)	$\frac{1}{4}$
h)	75%	q)	Inverse Property of multiplication
i)	$\frac{5}{4}$		

2)	$\$0.99$ per pound or 99¢ per pound
4)	$(2 \times 10,000) + (6 \times 1000)$
6)	a. $\frac{2}{3}$ b. $\frac{1}{3}$
8)	$LM = 1\frac{1}{4}$ in. $MN = 1\frac{1}{4}$ in. $LN = 2\frac{1}{2}$ in.
10)	a. $\frac{4}{5}$ b. 0
12)	$c = 15$
14)	$e = \$2.50$
16)	$n = 0$
18)	$2\frac{7}{8}$
20)	106
22)	47,346
24)	$\frac{7}{9}$
26)	Inverse Property of Multiplication
28)	a. $\angle A$ and $\angle B$ b. \overline{AC} or \overline{CA}
30)	$\frac{5}{2}$

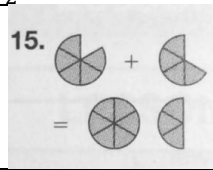
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Practice Set 10

a)	$8\frac{3}{4}$ in.	i)	$3\frac{1}{3}$
b)	$14\frac{2}{7}\%$	j)	$\frac{5}{3}$
c)	$2\frac{2}{5}$	k)	$\frac{23}{6}$
d)	2	l)	$\frac{19}{4}$
e)	$3\frac{5}{7}$	m)	$\frac{11}{2}$
f)		n)	$\frac{27}{4}$
g)	2	o)	$\frac{52}{5}$
h)	$1\frac{5}{9}$	p)	Sample: $\frac{8}{2}, \frac{16}{4}, \frac{20}{5}$

2)	a. Parallel b. Perpendicular
4)	a. 30% b. 70%
6)	a. < b. >
8)	
10)	x = 23,775
12)	z = 37,600
14)	b = \$25.00
16)	$\frac{1}{16}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}$
18)	0
20)	1379
22)	\$17.20
24)	$5\frac{1}{3}$
26)	a. Ray; \overrightarrow{MC} b. Line; \overleftrightarrow{PM} or \overleftrightarrow{MP} c. Segment; \overline{FH} or \overline{HF}
28)	$1; \frac{1}{2}, \frac{1}{4}$
30)	a. -5 b. $\frac{1}{3}$ c. They are reciprocals.

Investigation 1

1)	$\frac{1}{4}$
2)	$\frac{1}{6}$
3)	$\frac{1}{12}$
4)	$\frac{1}{8}$
5)	$\frac{1}{6}$
6)	$\frac{1}{12}$
7)	6
8)	$\frac{1}{4}$
9)	$\frac{1}{2}$
10)	$\frac{1}{3}$
11)	4 mi
12)	9 eggs
13)	$5 \times \frac{1}{3} = 1\frac{2}{3}$
14)	$\frac{1}{2}$
15)	
16)	$\frac{1}{6}$ and $\frac{1}{3}$
17)	$\frac{1}{6}$
18)	$\frac{1}{12}$
19)	$\frac{1}{4}$
20)	$\frac{1}{12}$
21)	$66\frac{2}{3}\%$
22)	25%
23)	$37\frac{1}{2}\%$
24)	a. 50% b. All equivalent to $\frac{1}{2}$
25)	$33\frac{1}{3}\%$
26)	$\frac{3}{4}$
27)	$\frac{1}{3}$
28)	$\frac{1}{4}$
29)	$\frac{1}{4}$

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30-32)	Show work
33)	$0.25 + 0.25 = 0.5$
34)	$0.5 + 0.5 = 1$

Extension

a) Sample: Mental Math because I could change both values to a fraction with a denominator of 10.

b) $>$, $>$, $<$

c) Show work in your sketch.

Sample: Figures A, B, and C are divided into an even number of parts and the segments that divide them form diameters. Figures D, E, and F are divided into an odd number of parts and the segments that divide them do not form diameters.