

The Math Department at Quarry Lane School has a challenging and enriching curriculum. We want to ensure each student is well prepared for the following school year. It's important for our students to keep up with their math skill over for the long summer break. Studies indicate that students lose a huge percentage of what they learned from the prior school year. In order to be proactive, Quarry Lane School Math Department would like to provide you with the following math grade level supplements.

These packets are for your student to practice during the long summer break. Each packet contains practice worksheets. Your student can do the practice worksheets at their own pace. Please encourage your student to complete this work and grade it using the answer keys provided.

Have a safe and fun-filled summer!

Date: Class: __

Summer Review for Rising 7th Grade

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

Estimate. Round to the nearest whole number before you add, subtract, or multiply.

1. 7.47 - 5.56

a. about 2

b. about 3

c. about 1

d. about 0

2. Use clustering to estimate 12.43 + 11.51 + 11.5 + 11.99.

5. about 48

c. about 52

d. about 40

3. Find 24.791 - 7.5.

a. 32.291

b. 16.991

c. 17.391

d. 17.291

Use mental math to find the sum.

4. 20.5 + 17.9 + 10.5

a. 49.4

b. 47.8

c. 49.9

d. 48.9

Find the product.

5. 0.5 · 10 · 1

a. 6

b. 5

c. 11.5

d. 10.5

b. $12\frac{2}{3}$

c. 24

d. 8

____ 7. $1\frac{1}{4} \cdot 3\frac{2}{3}$

b. $3\frac{1}{6}$

Find the quotient.

8. $-135 \div 15$

b. -9 c. 9

9. What metric measure best describes the amount of juice in a full pitcher?

a. 0.072 kL b. 1 kg c. 3 L

d. 50 mL

10. Order the measurements from the least to the greatest.

2,720 mL

24.91 L 0.0268 kL

a. 2,720 mL, 24.91 L, 0.0268 kL

c. 2,720 mL, 0.0268 kL, 24.91 L

b. 24.91 L, 0.0268 kL, 2,720 mL

d. 0.0268 kL, 24.91 L, 2,720 mL

11. Find the range from 72 to (-17).

Find the difference.

 $12. \quad 19.91 - 18.1$

13. You owe \$5 to a friend. Write an integer to represent this situation.

Solve the equation.

14. 9x - 11 = -38

15. $x + \frac{3}{4} = \frac{17}{18}$

b.
$$\frac{7}{36}$$

c.
$$\frac{10}{11}$$

d.
$$1\frac{25}{36}$$

Use number sense to solve the equation.

16. 5x + 18 = 43

17. Find a solution to the inequality x > -11.

18. Find a number that is NOT a solution of the inequality $x - 9 \le 8$.

19. Which inequality has 20 as a solution?

a.
$$12 + m < -6$$

a.
$$12 + m < -6$$
 b. $-6 + m > 12$

c.
$$12 + m = -6$$

d.
$$-6 + m < 12$$

Solve the inequality.

20. $-0.3n \le 5.4$

a.
$$n \le -18$$

b.
$$n \le -1.8$$

c.
$$n \ge -1.8$$
 d. $n \ge -18$

d.
$$n \ge -18$$

21. $-2z + 5 \le 35$

a.
$$z \le -15$$

b.
$$z \le -23$$

c.
$$z \ge -20$$

d.
$$z \ge -15$$

22. Michael is the youngest person in the office. Judy is the oldest person in the office. The age difference between Michael and Judy is at most 35. If Michael is 27, which of the following CANNOT be Judy's age?

b. 62

c. 60

d. 61

23. Paul earns \$5 per hour working after school. He needs at most \$410 for a stereo system. Write and solve an inequality that describes the number of hours h he must work to reach his goal.

a. 5h < 410; less than 82 hours

c. $5h \le 410$; at most 82 hours

b. $5h \ge 410$; at most 82 hours

- 24. Chelsea makes \$11.15 an hour working at Dr. Daleson's Car Clinic. She plans to buy a camera, which costs \$353.10. Write and solve an inequality describing how many hours h Chelsea will have to work to be able to buy the camera.
 - a. 11.15h < 353.10; at least 31 hours
 - b. 11.15h > 353.10; at most 31 hours
 - c. $11.15h \le 353.10$; at most 32 hours
 - d. $11.15h \ge 353.10$; at least 32 hours
 - 25. Which number is divisible by 10 and 5?
 - a. 947
- 997
- 712
- 26. Which of these numbers is NOT divisible by 2, 3, 4, 5, 6, 8, and 9?
 - a. 4,222,368
- b. 6,665,400 c. 1,273,320
- 767,880

- 27. Which statement is true?

 - a. $\frac{29}{35} < \frac{20}{30}$ b. $\frac{18}{32} > \frac{16}{32}$ c. $\frac{14}{21} > \frac{17}{24}$ d. $\frac{20}{15} < \frac{28}{23}$

- __ 28. Which fraction is greater than $\frac{2}{5}$?
 - a. $\frac{1}{10}$ b. $\frac{1}{5}$
- c. $\frac{5}{10}$

- 29. Write 9 · 9 · 9 · 9 · 9 · 9 using an exponent.
- 99⁷
- 30. For which pair of numbers is the first number divisible by the second number?
 - a. 254,511 and 3
- b. 707,772 and 5
- 504,732 and 10
- 17,139 and 4

- 31. Tell which number is prime: 4, 29, 35, 58.
 - a. 29
- b. 35
- 58
- 4
- 32. Use common factors to write two fractions equivalent to $\frac{54}{126}$.
 - a. $\frac{18}{42}, \frac{9}{21}$ b. $\frac{20}{44}, \frac{18}{21}$ c. $\frac{18}{42}, \frac{20}{44}$ d. $\frac{13}{25}, \frac{9}{21}$

Order from least to greatest.

- $33. -0.33, 0.25, -\frac{1}{2}, -0.17$
 - a. $0.25, -0.17, -0.33, -\frac{1}{2}$

c. $-0.33, 0.25, -\frac{1}{2}, -0.17$

b. $-\frac{1}{2}$, -0.17, -0.33, 0.25

- d. $-\frac{1}{2}$, -0.33, -0.17, 0.25
- 34. Identify which of the statements is true.
 - a. -36.5 > -36.07
 - b. -8.0329 > -8.045

c. -0.4 > -0.004d. -2.6 > 2.521

Name:	
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35. A class is selling magazines as a fundraiser. Of the 200 magazines sold, Ananda sold $\frac{1}{2}$ of them. Gina sold

0.065 of the magazines. Ben sold $\frac{3}{100}$ of the magazines, and Fatima sold 0.105 of the magazines. Who sold

the most magazines?

- a. Fatima
- b. Gina
- Ben
- d. Ananda

Estimate the difference.

- $\frac{1}{15} = 6\frac{1}{2}$

- d. 3

Find the sum.

- $\frac{1}{9} = 37. \quad 16\frac{1}{9} + 5\frac{2}{3}$
 - a. $21\frac{7}{9}$ b. $21\frac{1}{6}$ c. $21\frac{1}{9}$
- d. $21\frac{1}{4}$
- 38. Melanie has a piece of cloth $3\frac{5}{6}$ yd long. How many $\frac{1}{3}$ -yd pieces can be cut from the cloth?
- b. 12 pieces c. 10 pieces
- 39. A rectangular patio is 4 yd 1 ft long and 5 yd 2 ft wide. What is the perimeter of the patio in yards?
- b. 10 c. $73\frac{2}{3}$

Write a ratio for the situation in three ways, comparing the first quantity to the second quantity.

- 40. A zoo has 17 monkeys and 7 chimpanzees.
 - a. 7 to 17, 7:17, $\frac{7}{17}$

c. 17 to 7, 17: 7, $\frac{17}{7}$

b. 7 to 24, 7: 24, $\frac{7}{17}$

- d. 17 to 24, 17: 24, $\frac{17}{24}$
- 41. Write three ratios equal to $\frac{4}{28}$.
 - a. $\frac{1}{8}$, $\frac{2}{16}$, $\frac{3}{24}$

c. $\frac{4}{28}$, $\frac{4}{32}$, $\frac{4}{36}$

b. $\frac{1}{7}, \frac{2}{14}, \frac{3}{21}$

d. $\frac{2}{12}$, $\frac{3}{18}$, $\frac{4}{24}$

- 42. Which is the best buy?
 - a. \$24.24 for 12 bottles of juice
 - b. \$18.09 for 9 bottles of juice
- c. \$16.32 for 8 bottles of juice
- d. \$22.33 for 11 bottles of juice

Name	•							
	43.	A store sells packages a. 11 pencils for \$2. b. 12 pencils for \$2.	97	ncils. Which packa	ge of c. d.	ffers the best unit p 14 pencils for \$3.0 15 pencils for \$3.	54	
	44.	Mariah sold her skates	s. Firs n she	took another \$4 off	em for the part of	or half of what she price and sold the s \$49	origi kates d.	nally paid. A week later, she took for \$31. How much did Mariah
	45.	Determine which ratio			$\frac{10}{16}$	by writing the ratio	s in s	simplest form.
				25 32				
***************************************	46.	Determine which ratio	form	ns a proportion with	$\frac{2}{7}$ b	y finding a commo	n mu	ltiplier.
							d.	
	47.	. Determine which ratio forms a proportion with $\frac{3}{21}$ by using cross products.						
		a. $\frac{2}{14}$		_		<u>2</u> 35		7 / ₃₅
	48.	Which ratios can form a. $\frac{9}{45}$, $\frac{8}{40}$			c.	8/12, 12/15	d.	$\frac{9}{22}$, $\frac{14}{28}$
	49.	Which ratios cannot to a. $\frac{8}{14}$, $\frac{12}{21}$			c.	$\frac{3}{7}, \frac{8}{16}$	d.	5/12, 15/36
	50.	Which ratios cannot to a. $\frac{2}{6.3}$, $\frac{5}{15.8}$			c.	$\frac{2}{2.6}$, $\frac{10}{13}$	d.	5 5.125, 4 4.1
	51.	Which of the following a. a bedroom b. a micro-organism		ould be the most app	c.	iate subject to draw New Jersey a baseball	v at a	scale of 1:1?
		Find a ratio equal to the ratio given.						
		6:7 a. 14:12	b.	6:14	c.	12:28	d.	12:14
	53.	44:33 a. 3:4	o.	40:3	c.	4:3	d.	4:27
		Write the decimal a	s a po	ercent.				

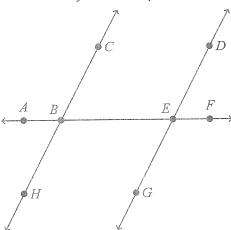
____ 54. 0.05

a. 0.05% b. 5%

c. 50% d. 0.5%

Name	•							
	55.	Thomas walks his dog time today compared ta. 113%	g for 37 minute to his walking b. 115%	time yesterday	e minutes tha . Round to th 131%	e nearest pe	v. Express as a percent.	percent his walking
	56.	Find 70% of 48. a. 32.6	b. 35.6	c.	33.6	d.	34.6	
		Use a proportion to s	olve. If necess	sary, round to	the nearest	percent.		
		15 is 375% of what nua. 5	b. 4	c.		d.	56.25	
	58.	8. On a factory floor, 115 out of every 120 toy robots is defective. What percent of the toy robots are de Round your answer to the nearest hundredth.						
	59.	a. 0.96% A new law requires th show that you need to a. \$1162.14	b. 95.83% at 35% of an i put \$405 in th	ndividual's inc ne stock market	this year. He	vested in th	d you earn this	Your accounts year?
	60.	Find the total cost of a a. \$363.99		ne ticket with a		9%. d.	\$396.19	
	61.	A department store pu You hand the clerk \$6 a. \$15.00	urchases a dres 60. How much b. \$5.40	change will yo	ell the dress ou get back? \$9.60		rs, the price is n \$50.40	narked up by 12%.
		Solve each problem					,	
	62.	A used-car dealership car for \$9,500. a. Find the original properties the second dealers a. \$3,696; \$804 b. \$7,360; \$804	rice of the car a	at the first deal many dollars v the nearest dol c.	ership. Roun vill you save	d to the nea by buying t	rest dollar.	

63. Name four rays that have point B as an endpoint.



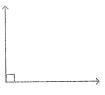
- $\stackrel{\longleftrightarrow}{AB},\stackrel{\longleftrightarrow}{FB},\stackrel{\longleftrightarrow}{CB},\stackrel{\longleftrightarrow}{HB}$
- $\overline{BA}, \overline{BF}, \overline{BC}, \overline{BH}$

- AB, FB, CB, HB
- \overrightarrow{BA} , \overrightarrow{BF} , \overrightarrow{BC} , \overrightarrow{BH}

Classify the angle as acute, right, obtuse, or straight.

64. Which is an obtuse angle?

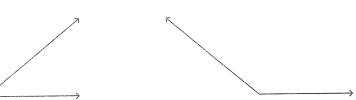
c.



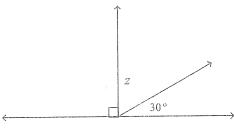
Ь.



d.



65. Find the measure of $\angle z$.



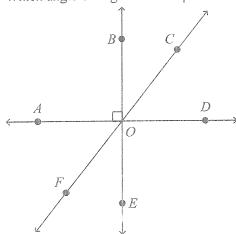
70°

b. 60°

150°

d. 75°

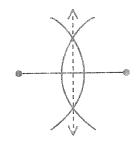
66. Which angle or angles are complementary to $\angle AOF$?



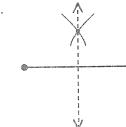
- a. $\angle COE$ and $\angle FOB$
- b. $\angle AOC$ and $\angle DOF$

- c. $\angle BOC$ and $\angle EOF$
- d. $\angle AOB$ and $\angle DOE$
- 67. Which drawing shows the construction of a perpendicular bisector?

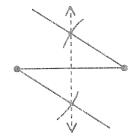
a.



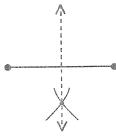
c.



b.



d.



- - a. 11 in.
 - b. 5.5 in.

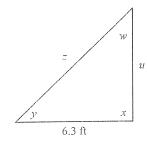
- c. 22 in.
- d. none of these

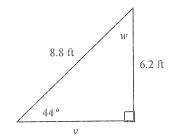
Classify the triangle by its sides.

- ___ 69. Triangle LPQ has side lengths of 12, 12, and 16.
 - a. scalene triangle
 - b. equilateral triangle

- isosceles triangle
- d. scalar triangle

70. The two triangle-shaped gardens are congruent. Find the missing side lengths and angle measures.





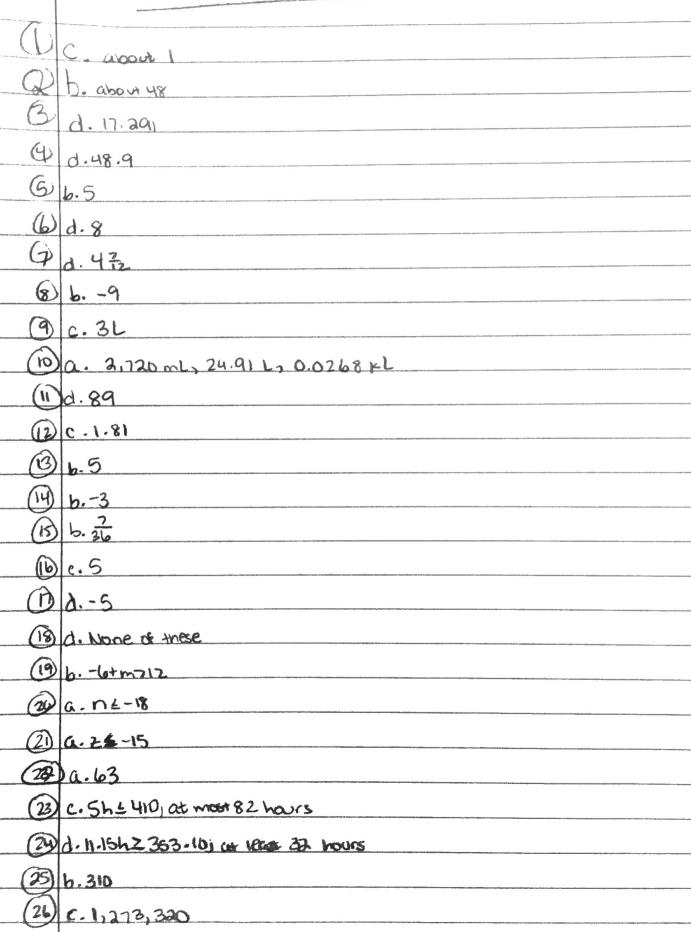
a.
$$x = 90^{\circ}$$
; $y = 44^{\circ}$; $z = 8.8$ ft; $u = 6.2$ ft; $v = 6.3$ ft; $w = 136^{\circ}$

b.
$$x = 90^\circ$$
; $y = 44^\circ$; $z = 8.8$ ft; $u = 6.2$ ft; $v = 6.3$ ft; $w = 46^\circ$

c.
$$x = 90^{\circ}$$
; $y = 44^{\circ}$; $z = 8.8$ ft; $u = 6.3$ ft; $v = 6.2$ ft; $w = 46^{\circ}$

d.
$$x = 180^{\circ}$$
; $y = 44^{\circ}$; $z = 12.5$ ft; $u = 6.2$ ft; $v = 6.3$ ft; $w = 46^{\circ}$

7th Grade Packet



\mathfrak{D}	b. 32732	(3) c.4:3
	c- 50	64) b.5%
(29)	d. 97	(55) b. 115%
&	a. 254,511 and 3	(56) c. 33.6
(31)	a. 29	60 band c: 4
32)	a. 42, 21	6 b. 95.83%
32	d 2, -0.33, -0.17, 0.25	(5) d.1157.14
	C0.47-0.004	60 b. \$396.75
	d. Anada	60 c. \$9.60
_	c. 4	(2) a. \$8,696; \$804
_	a. 2139	(3) d. EA, BE, EC, BH
	d.11 pieces	(64) d.
	4.20	63 b. 60°
	C. 17to7, 17:7, 5	(b) c. 180C and LEOF
	6. 与元,章	(i) a.
	b. \$18.09 for 9 box+185	(3) c. 22 in.
<u>(43)</u>	b. 12 pencils per \$2.88	6 c. Isaceles trangle
(प्रेप	b. \$98 d. 56	(70 b. x=90°; y=44°; z=8.8ft, v=6.2ft,
(પુક	d. 56 a. 35	V=63f+; w=1360
46		
<u>(47)</u>	a. $\frac{2}{14}$ a. $\frac{9}{45}$, $\frac{9}{40}$	
(48)	a. 45, 40 3 & c. 7 > 16	
<u>(40)</u>	2 9 a. 63, 15.8	
(5)		
(31)	d. a baseball	
(5)	d. 12:14	