FAIRFIELD PUBLIC SCHOOLS

Fairfield, Connecticut

MIDDLE SCHOOL MATH PACKET GRADE 7



1.	A rare speci specimen no	_	l 1.08 grai	ms. If the	weight increa	eased by 0.01 grams, what would the	
	a) 1.09 g	b) 1.90 g	c)	9.10 g	d) 19.0 g		
2.	The length of brick now?	of a brick was	s 10.5 cm.	If the len	gth was decr	reased by 0.1 centimeters, how long is the	
	a) 9.4 cm	b) 9.5 cm	m c)	10.4 cm	d) 10.4	.49 cm	
3.	Which mean	ns the same a	s 4 + 0.3 -	+ 0.01?			
	a) 430.1	b) 43.01	c) 4.3	31 d)	4.031		
4.	Which means the same as 1.23×10^3 ?						
	a) 1230	b) 123.0	c) 12.	30 d)	1.230		
5.	4/5 of Chip'	s family like	s corn. W	hich decin	nal number n	names the same amount?	
	a) 4.5	b) 0.45	c) 0.8	d) 0.08	}		
6.	Which of th	e following i	s equivale	ent to 7.6 ?			
	a) 21/6	b) 7 3/5	c) 76/7	d) 76/	100		
7.	60 % of Sal	ly's family li	kes corn.	Which dec	cimal number	er names the same amount?	
	a) 0.6	b) 0.66	c) 0.06	d) 6.0)		
8.	3. Two-thirds of Mrs. Field's class planned to attend the softball game. APPROXIMATELY percent of the class was that?					ftball game. APPROXIMATELY what	
	a) 75 %	b) 66 %	c) 99 %	d) 33	%		
9.		ed 6 % to a de Which correct			termine the a	amount of tax he would have to pay on his	3
	a) 0.6	b) 0.06	c) 6.0	d) 60	0		
10.	45% of the what?	registered voi	ters cast b	allots in a	recent election	ion. What fraction of the registered voters	is
	a) 45/10	0 b)	4/5	c) 9/	20	d) 45/1000	
						Speed in	
11.	This table sh	ows racing ti	mes for 4	days.	Day_	Miles/hour Friday 178.24	

Saturday

Sunday Monday 177.204 178.024

177.24

Which list shows the days in order from the LEAST number of tickets sold to the GREATEST

number of tickets sold?

a) Saturday, Monday, Sunday, Friday

b) Monday, Saturday, Sunday, Friday

c) Monday, Saturday, Friday, Sunday

d) Saturday, Monday, Friday, Sunday

12. If 58.4 were put into the following lists so that the lists were then ordered from SMALLEST to LARGEST, in which list would 58.4 be the third number?

a) 58.24, 58.39, 58.72

b) 58.1, 59.2, 59.5

c) 58.22, 58.53, 58.75

d) 58.01, 58.03, 58.07

13 John used his computer 4 1/4 hours on Monday, 4 1/2 hours on Wednesday and 3 7/8 hours on Friday. Which list shows these days in order from the GREATEST to LEAST amount of computer time?

a) Monday, Wednesday, Friday

b) Wednesday, Monday, Friday

c) Friday, Wednesday, Monday

d) Wednesday, Friday, Monday

14. Sue scored between 7.2 and 7.4 points. Which could be the number of points she scored?

a) 7.19

b) 7.24

c) 7.41

d) 7.03

15. Tom rode his bike between 1 ½ and 1 ¾ hours. Which could be the number of hours he rode?

a) 13/8

b) 1 5/8

c) 17/8

d) 1 13/16

16. Yesterday Mrs. Mirsky put 17.49 gallons of gas in her car. What is this amount rounded to the NEAREST gallon?

a) 16 gallons

b) 17 gallons

c) 17.5 gallons d) 18 gallons

17. Last year, 168.78 million tons of garbage were generated. What is this number rounded to the NEAREST tenth?

a) 168.7

b) 168.8

c) 170.0

d) 200.0

18. Levi's dog weighed 15.5 pounds when it was a puppy. He was 3.5 times as heavy when he was an adult. Which number sentence could be used to determine the dog's weight as an adult?

a) 15.5 - 3.5 =

b) 15.5 + 3.5 =

c) 15.5 / 3.5 = ____

d) $15.5 \times 3.5 =$

19. Steve's average in math is 83.4 % and he increased his average by 5.2 %. Which number sentence could be used to determine Steve's new average?

a) 83.4 - 5.2 =

b) 83.4 + 5.2 =

c) 83.4 / 5.2 = ____

d) $83.4 \times 5.2 =$

- 20. Write a story problem that can be solved using the equation: 18.64 / 0.5 = x
- 21. Write a story problem that can be solved using the equation: x 15 = 66
 - 22. Solve this problem: 61.4 17.79
 - 23. Solve this problem: 33.24 + 27.4 + 14.78
 - 24. Solve this problem: 5.32 / 10
 - 25. Solve this problem: 3.94 x 1000
 - 26. Solve this problem: 37.4 x 0.8
 - 27. Solve this problem: 564 / 6
 - $28. \ 15 \frac{3}{4} + 7 \ 1/4$
 - a) 22 b) 22 2/4 c) 22 4/8 d) 23
 - 29. 6 2 3/10
 - a) 3 7/10 b) 8 3/10 c) 4 3/10 d) 4 7/10
 - 30. 7 x 1/4
 - a) 1 1/4 b) 1 3/4 c) 1 7/4 d) 4
 - 31. 6 2/5 x 2
 - a) 12 2/5 b) 12 4/5 c) 24/5 d) 12/5
 - 32. Mike's family pays \$21.95 per month for their AOL service. How much does his family pay for this service each year?
 - 33. Lauren needs 4 ½ cups of flour for a bread recipe. She only has 2 1/8 cups of flour. How much MORE flour does she need?
 - a) 6 5/8 cups b) 2 1/6 cups c) 2 3/8 cups d) 2 cups

14 1/4 gallons of gasoline on the	y trip, the fuel tank in his car was full. During his trip he put in first day and then $13\frac{3}{4}$ gallons on the second day. If he bought a how much did he buy on the third day?				
a) 16 gallons b) 16 ½ gallons	c) 17 gallons d) 17 ½ gallons				
	nd a pair of gloves for \$18.95. She gave the clerk \$40. How e this problem. Then write 1 or 2 sentences explaining how you				
36. Danielle needs to subtract 5.79 fr use to ESTIMATE the difference	rom 10.9. Which of the following would be BEST for Danielle to 2?				
a) 10 - 6 b) 10 - 5 c)) 11 - 5 d) 11 - 6				
	21.79 and 12.9, Dominique subtracted 22 - 13. Would or LESS than the actual difference?				
a) More, because she rounded both down.	numbers up b) More, because she rounded both numbers				
c) Less, because she rounded both nu	mbers up d) Less, because she rounded both numbers down				
38. Sarah needs to find 49 % of 482. your estimate.	What would be a GOOD ESTIMATE? Explain how you made				
39. Nancy rode on a bus 38.45 miles the first week of school and 29.85 miles the second week. ABOUT how many miles did she ride on the bus during the two weeks?					
a) A little less than 60	b) A little more than 60				
c) A little less than 70	d) A little more than 70				
40. A 16-pound turkey should cook f how long was it in the oven?	for ABOUT 5 ¾ hours. If she cooked it another ½ hour, ABOUT				
a) A little less than 6 hours	b) A little more than 6 hours				
c) A little less than 7 hours	d) A little more than 7 hours				
square feet of another. He bough	k needed dirt to over 380.75 square feet of one field and 590.50 at enough dirt to cover 800 square feet of dirt. Explain how you de if he bought enough dirt to cover both fields.				
42. If the ratio of oil to gas in a lawn mower?	mower is 1 to 16, which of these should NOT be used in the				
a) 4 parts oil, 64 parts gas	b) 2 parts oil, 32 parts gas				
c) 1 parts oil, 8 parts gas	d) 5 parts oil, 80 parts gas				

43. A 10-fo	ot tree casts a	shadow 4 feet l	ong. How long	g a shadow wi	ll be cast by a	5-foot person?
a) 10 feet	b) 9 fee	et c) 2 fe	eet d)	l foot		
44. Joe wor \$90?	ked 6 hours a	nd was paid a to	otal of \$27. At	this rate, how	long would it	take Joe to earn
a) 40.5 hour	rs .	b) 20 hours	c) 15 hor	urs d)	3 ½ hours	
45. Solve th	is problem;					
125 % c	of 80 = ?					
46. Solve th	is problem;					
8 % of 2	200 = ?					
47. Solve th	is problem;					
45 is wh	nat percent of	50?				
48. Solve th	is problem;					
Aubrey wan	ted to leave a	15 % tip at a re	staurant. The b	oill came to \$1	2. What tip s	should she leave?
49. Solve th	is problem;					
Melissa save	ed \$10 on a \$3	50 pair of shoes	What percent	savings is thi	s?	
50. Roxann	a is 150 centi	meters tall. Ho	w many meters	is that?		
a) 0.50	0 m b) 1.	5 m c) 1	5 m d) 15,000 m		
51. 10 gallo this?	ons of milk we	ere used when n	naking the choo	olate pudding	for lunch. H	ow many quarts is
a) 2.5 q	uarts b) 2	20 quarts	c) 5 quarts	d) 40 q	uarts	
52. What is	the BEST un	it to measure th	e weight of a tr	uck?		
a) ounce	es b) pour	nds c) to	ons d)	grams		
53. What is one time		it to measure the	e amount of blo	ood circulating	g through a pe	rson's hand at any
a) liters	b) millili	ters c) c	quarts	d) kiloliters		
54. Draw a	hexagon and	then describe w	hat a hexagon i	is.		

55.	An ice cream cone is in the shape of an isosceles triangle. Draw a picture of what the cone could look like. Then describe what an isosceles triangle is.
56.	Many letters of the alphabet have lines of symmetry. In which pair of letters below does each letter have at least 2 lines of symmetry?
	a) D & I b) C & H c) A & E d) H & X
57.	Micaela earned \$23, \$30, \$16, and \$19 babysitting four weekends last month. What is the average (MEAN) amount earned by Micaela last month? Explain how you got your answer.
58.	Lauren had test scores of 84, 94, 96, 49, and 92 on five tests this marking period. What is her MEDIAN score so far this marking period?
	a) 82 b) 83 c) 92 d) 96
59.	Scott is playing a game with 8 number tiles marked 0, 2, 4, 6, 8, 10, 12, and 14. If he draws one tile, what is the probability that the number will be LESS than 10? Explain how you arrived at your solution.
60.	T. J. is playing a word game with 26 tiles lettered a, b, c,, z. What is the probability that T. J. will select a vowel (a, e, i, o, u)?
	a) 1/26 b) 5/26 c) 21/26 d) 5
61.	Write the number that should come next in this pattern. Then write a sentence to explain how you decided what to write.
	120, 105, 90, 75,