Dear Parents and Students,

Sincerely,

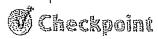
Attached, please find this year's summer practice packet for math. These packets will be due to the homeroom or mathematics teacher on the first day of school and will count as a grade for the first trimester. Please see rubric below for grading details. As you will see on the rubric, in order to receive the full 30 points, all problems must be complete, neat and organized, with detailed work shown for each problem (where applicable). Thank you in advance for your focused effort on this year's summer math packet. It is our hope that completing the math packet will reinforce the skills taught this year. We hope you enjoy a fantastic summer and look forward to working with you again this fall.

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Dawn Parke						
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Name:						
A. All prob	lems in th	e packet are	complete.			•
Points:	10	8	. 6	4	2	
B. Detailed	d work pro	ocess is show	n for each p	roblem (use ex	ctra paper as	needed).
Points:	10	8	. 6	4	2	•
C. Work is	s neat and	organized.				
Points:	5	4	3	2	1	•
		Packet is ha e ach day tl		me (the first o nt is late.	lay of school). One point
Points:	5	4	.3	2 .	1 .	
Total Poin	ts Possibl	e: 30		Points E	Earned:	annun lain philineiria

Multiplication Facts Weekly Log

It is imperative that your incoming seventh grade student has mastered his/her multiplication facts (0-12). Please be sure your student practices each week for 20 minutes and sign the log.

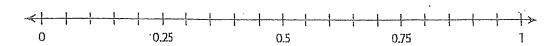
Week Of	Parent Signature
July 6, 2025	
July 13, 2025	
July 20, 2025	
July 27, 2025	
August 3, 2025	
August 10, 2025	
August 17, 2025	
August 24, 2025	
August 31, 2025	



Concepts and Skills

Locate each number on the number line. Then complete the sentence. (pp. P245-P246)

1. $0.4, \frac{3}{5}, 0.35$



The number with the least value is _____

Write the numbers in order from least to greatest. (pp. P247-P248)

2.
$$0.4, \frac{3}{5}, 0.55, \frac{1}{4}$$

3.
$$\frac{3}{4}$$
, 0.7, $\frac{1}{2}$, 0.1.

Use a factor tree to find the prime number factors. (pp. P249-P250)

4.



5.



6.



Write a decimal, a percent, or a simplified fraction. (pp. P251-P256)

- 7. 0.08 as a percent
- 8. $\frac{3}{5}$ as a decimal
- 9. 80% as a fraction
- 10. $\frac{13}{20}$ as a percent

Problem Solving



For 11-12, use the data in the table. (pp. P251-P256)

- 11. What percent of the apes in the Wild Country Zoo are orangutans?
- 12. One species makes up 40% of the apes in the zoo. Which species is it?

Apesinthey	ildkeuntyzoo
Species	Number
. Bonobo	4
Chimpanzee	20
Gorilla	15
Orangulan	11
Total	50

13. Entries for the Lake Manatee Bass Fishing Contest are shown. First place is awarded to the contestant with the heaviest fish.



Manatees
COMFEST
Weight of fish caught
, 4 , , . , . , . , . , . , .
6.25 pounds
6 2 pounds
$6\frac{1}{3}$ pounds

What is the correct order from first place to third place? (pp. P247-P248)

- A First: George, Second: Mia, Third: Harvey
- B First: Mia, Second: George, Third: Harvey
- C First: Mia, Second: Harvey, Third: George
- D First: Harvey, Second: Mia, Third: George
- 14. Ric used a factor tree to write 180 as a product of factors that are prime numbers. How many factors were in Ric's product? (pp. P249–P250)
 - (A) 2
 - (B) 3
 - C 4
 - **D** 5
- 15. On Monday, 6% of the students at Riverside School were absent. Written as a decimal, what portion of Riverside's students attended school that day? (pp. P253–P254)
 - (A) 0.06
 - **B** 0.6
 - © 0.94
 - **D** 9
- 16. The Hastings family drove $\frac{12}{25}$ of the distance to Yellowstone National Park on the first day of their vacation. What percent of the distance to the park remained for them to drive? (pp. P255-P256)
 - A) 12%
- **©** 48%
- (B) 13%
- D 52%



Concepts and Skills

Draw a model to find the quotient. Write the quotient in simplest form. (pp. P259-P260)

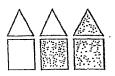
1.
$$\frac{3}{4} \div 3$$

2.
$$\frac{2}{3} \div 5$$

3.
$$\frac{3}{7} \div 2$$

For 4-6, use the drawing to write the ratio. (pp. P261-P262)

- 4. squares to triangles
- 5. total to dark
- 6. triangles to total



Write the equivalent ratio. (pp. P263-P264)

7.
$$8 \text{ to } 3 = \underline{\hspace{1cm}} \text{ to } 12$$

8. 2 to
$$6 = 4$$
 to ____

Find the unit rate. (pp. P265-P266)

- 10. 45 visitors with 5 tour guides 11. 450 mi on 15 gal of gas
- 12. \$56 in 8 hr

Use the formula $d = r \times t$ to solve the problem. Include the units in Your answer. (pp. P267-P268)

14.
$$d = 90$$
 ft

15.
$$d = 300 \text{ mi}$$

$$r = 40$$
 km per hr

$$r = 10$$
 ft per sec

$$t = 3 \text{ hr}$$

$$t = 4 \, hr$$

Problem Solving TELL



Use the table for 16-17. (pp. P265-P268)

16. Fuel efficiency can be written as a rate comparing the distance driven to the gallons of gas used. What is the fuel efficiency of Car A written as a unit rate?

	FinelStest Results					
	779374	Distance				
	Car	(in mi)	Gas (in gal)			
Ì	A	308	14			
	В	288	12			

17. During the test, Car B was driven at the speed of 48 miles per hour. How long did the test take?

.Fill in the bubble completely to show your answer.

18. To make fruit punch for a party, Alison used 3 quarts of pineapple juice and 2 gallons of orange juice. There are 4 quarts in a gallon. What is the ratio of pineapple to orange juice in quarts? (pp. P261-P262)



- (A) 3 to 2
- B 3 to 5
- © 3 to 8
- (D) 8 to 3
- 19. Three out of every 10 pairs of skis sold by Snow Sports are cross-country skis. Snow Sports sold 450 pairs of skis during the winter season. How many of the skis were likely to have been cross-country skis? (pp. P263-P264)
 - (A) 443
 - (B) 135
 - C 45
 - (D) 30
- 20. At Greentree Elementary School, there are 72 fifth graders in 3 classrooms. What unit rate describes this situation? (pp. P265-P266)
 - \bigcirc 14 $\frac{2}{5}$ fifth graders per class
 - B 18 fifth graders per class
 - © 24 fifth graders per class
 - (D) 216 fifth graders per class
- 21. Eduardo rides his bicycle for 6 hours. What was Eduardo's average speed if he rides a distance of 84 miles? Use the formula $d=r\times t$. (pp. P267-P268)
 - A 504 mi per hr
 - B 90 mi per hr
 - © 78 mi per hr
 - D 14 mi per hr

A Phas	· inioqu	t		
	amogari.	:	•	
Concepts and Skills				
/rite an integer to represent the situation. ((pp. P271–P272)			
1. a shark 125 feet below sea level	2. a ba	ink deposit of 3	300 dollar	rs
Vrite an integer to represent the situation.	Then, tell what	0 represents.	(pp. P271–P	272)
Situation	Integer	· What I	Does 0 R	epresent?
3. a gain of 13 yards by a football team				
4. a temperature of 25 degrees below zero				٠.
Write an expression. Then evaluate the exp	pression for the	value given. (pp. P273-P2	74)
5. Miki has n dollars. Dora has 3 more dollar than Miki. How many dollars does Dora he Evaluate for $n=14$.	nave? she	•	w many s	4 times as many shells does Gina
Of 1 , 3 , 4 , and 8 , which numbers are soluti	ions for the ine	quality? (pp. P27	/5_P276)	
7. <i>a</i> < 7 8. <i>b</i> ≥ 3	9. c>	> 4	10.	<i>d</i> ≤ 8
	The state of the s			

11. If you drop a large number of all 3 coins from above, which coins will be caught at Level 1? Which coins will pass through?

12. Which coins will be caught at Level 2? Which coins will

pass through?_

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Level 2

13. The lowest temperature ever recorded in North Dakota was 60 degrees below zero Fahrenheit. Which integer represents the temperature? (pp. P271-P272)



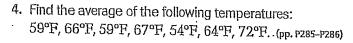
- (A) 0
- (B) 60
- $(C)^{-60}$
- $(D)^{-0}$
- 14. In football, a team receives 3 points for each field goal it makes. Which expression shows the number of points a team will receive for making f field goals? (pp. P273-P274)
 - \bigcirc 3 + f
 - (B) 3 × f
 - (C) f 3
 - $(\mathbf{D}) f \div 3$
- 15. The elevation of Central City is 84 feet above sea level. Which integer is the opposite of 84? (pp. P271-P272)
 - (A) 48
 - (B) +84
 - (C) -48
 - D -84
- 16. Uncle Louie is at least 1 inch shorter than Miriam, and at least 2 inches taller than Jeffrey. Jeffrey's height is 64 inches. Miriam is not more than 5 inches taller than than Jeffrey. Which answer choice could be Uncle Louie's height? (pp. P275-P276)
 - (A) 65 inches
 - (B) 67 inches
 - (C) 69 inches
 - (D) 70 inches

T Checkpoint

Concepts and Skills

- 1. Plot and identify the polygon with vertices at (4, 0), (8, 7), (4, 7), and (8, 0). (pp. P279-P280)
- 2. A parallelogram has a base of 8.5 cm and a height of 6 cm. What is the area of the parallelogram? (pp. P281-P282)
- 3. Find the median and mode of Erin's math sores: 93, 88, 85, 93, 100, 94, 85, 89. (pp. P283-P284)

median _____ mode



average _____

For 5-7, use the data below. (pp. P287-P290)

The math test scores for Miss Jackson's class are given below.

88, 94, 86, 78, 65, 83, 71, 74, 92, 73, 95, 71, 100, 98, 68, 85, 81, 93, 89, 84

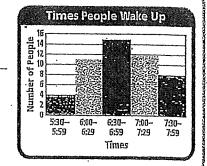
- 5. Make a histogram for the data using intervals of 10.
- 6. Which interval has the greatest frequency?
- 7. How many students received grades greater than 80? _____

Problem Solving TEL



For 8-9, use the histogram. The histogram shows the times that people wake up in the morning. (pp. P287-P290)

- 8. How many people were surveyed?
- 9. How many more people surveyed wake up between 6:30 and 6:59 than between 7:30 and 7:59?



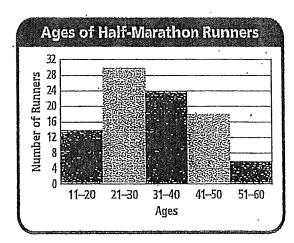
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Fill in the bubble completely to:show your answer.

10. On a map of the town of Barton, City Hall Park has three of its four vertices at (15, 0), (5, 0), and (15, 9). City Hall Park is a rectangle. What are the coordinates of the park's fourth vertex? (pp. P279-P280)



- (A) (5, 9)
- (B) (9, 5)
- (C) (5, 15)
- (D) (9, 15)
- 11. A window at an art gallery is shaped like a parallelogram. The base measures 1,2 meters and the height measures 0.8 meters. What is the area of the window? (pp. P281-P282)
 - (A) 0.48 sq m
 - (B) 0.96 sq m
 - (C) 1.92 sq m
 - **D** 2.0 sq m
- 12. The ages of the members of the Chess Club are given below. What is the median age? (pp. P283-P284) 13, 9, 10, 9, 14, 13, 8, 9
 - (A) 9
 - **B** 9.5
 - (C) 10
 - D 10.5
- 13. The histogram shows the ages of runners in a half-marathon. How many runners are between the ages of 21 and 40? (pp. P289-P290)
 - (A) 24
 - (B) 30
 - C 42
 - (D) 54



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Date_____ Period____

Least Common Multiple

Find the LCM of each.

1) 10, 3

2) 14, 6

3) 15, 6

4) 15, 20

5) 27, 18

6) 4, 30

7) 24, 32

8) 20, 30

9) 24, 36

10) 35, 25

11) $18xy^2$, $15y^3$

12) $20x^3$, $16x^4$

Relate Fractions, Decimals, and Percents #2

Complete each row of the table by filling in the missing numbers. Write all fractions in simplest form.

Fraction	Decimal	Percent
<u>7</u> 50	0.14	14%
<u>8</u> 25		
		7%
3 4		
	0.91	
<u>1</u> 5		
		97%
14 25		
	0.48	
·		66%
	0.3	
		18%

Dividing Fractions by Fractions

You can divide a fraction by a fraction by multiplying by its reciprocal instead. Let's try it! Solve $\frac{1}{3} \div \frac{3}{5}$.

First, find the reciprocal of the divisor. You can do this by switching the numerator and denominator.

$$\frac{3}{5} \Rightarrow \frac{5}{3}$$

Next, change the division problem into a multiplication problem. Multiply by the reciprocal that you found above. Make sure your answer is in simplest form.

$$\frac{1}{3} \div \frac{3}{5} = \frac{1}{3} \times \frac{5}{3} = \frac{5}{9}$$



Try it yourself! Divide. Show your work and write your final answer in simplest form.

$$\frac{2}{5} \div \frac{3}{4} = \qquad \qquad \frac{2}{7} \div \frac{1}{2} =$$

$$\frac{1}{6} \div \frac{3}{8} =$$
 $\frac{1}{12} \div \frac{4}{9} =$

$$\frac{4}{11} \div \frac{5}{7} = \qquad \qquad \frac{5}{8} \div \frac{7}{10} =$$

$$\frac{5}{9} \div \frac{7}{12} =$$
 $\frac{9}{14} \div \frac{5}{6} =$

$$\frac{11}{20} \div \frac{4}{5} =$$
 $\frac{2}{3} \div \frac{13}{16} =$

Integer Subtraction Rules

When you subtract an integer, it's the same as **adding** the **opposite**. So, you can change a subtraction problem into an addition problem. Take a closer look at these examples.

$$-6 - 2 \rightarrow -6 + (-2)$$

$$-4 - (-1) \rightarrow -4 + 1$$

Then use the same rules as adding integers:

$$-6 + (-2) = -8$$

$$-4 + 1 = -3$$

Since these numbers have the same sign, find the sum. The answer will be negative because both numbers are negative.

Since these numbers have different signs, find the difference. The answer will be negative because -4 has the larger absolute value.

Use integer subtraction rules to determine if the answer to each problem will be positive or negative. The first one has been done for you.

3 - (-7)	-8 - 5	-9 - (-1)	6 - 10	-1 - (-4)
		3 3 6		
12 - (-9)	-7 - (-11)	-16 - 5	13 - (-8)	-19 - 2
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-14 - (-21)	-18 - 12	24 - (-10)	17 – 29	12 - (-13)
	- 1950 1950	ASSE ASSES		

Solve each problem. Use integer subtraction rules to help!

-6 - 4 =	2 - 8 =	7 - (-6) =	-9 - 3 =
1 - 5 =	-4 - 8 =	-2 - (-3) =	11 - (-6) =
-20 - (-7) =	16 - 18 =	-23 - (-12) =	15 - 21 =

Integer Addition Rules

When adding integers with the same sign, find the sum of the numbers. The answer will have the same sign as the original numbers.

$$2 + 6 = 8$$

$$-9 + (-3) = -12$$

When adding integers with different signs, find the difference of the numbers. The answer will have the sign of the number with the larger absolute value.

$$-8 + 10 = 2$$

$$1 + (-7) = -6$$

Use integer addition rules to determine if the answer to each problem will be positive or negative. The first one has been done for you.

-6 + 8	5 + 2	-7 + (-3)	1 + (-4)	-8 + (-9)
	52 4 SEE	1997		
10 + (-7)	-20 + (-6)	-11 + 4	-2 + (-18)	12 + (-9)
500	A 5028			
-24 + (-21)	18 + (-15)	-19 + 27	15 + (-11)	-16 + (-23)
		- C523		

Solve each problem. Use integer addition rules to help!

-4 + (-5) =	6 + (-7) =	-2 + (-3) =	-7 + 8 =
1 + (-8) =	-9 +1 =	-5 + (-6) =	8 + (-12) =
-10 + (-4) =	-4 + 11 =	13 + (-7) =	-14 + (-2) =
20 + (-11) =	-15 + 17 =	-18 + (-12) =	-22 + (-22) =