

Name		Date
	Charging Co	ord
$\frac{2}{3}$ of a charging cord is $\frac{1}{2}$ meter long. How long is the charging cord? (Answer in meters.)		



Name	Date
Prizes, Price	es, and Percents
(1) Would you prefer 33% of a \$100 prize or 75% of a \$50 prize?	(4) Write 6.25% as a decimal, then as a fraction in lowest terms.
(2) 8 is 25% of what number?	(5) Find the total cost of a \$16 item after a sales tax of 6.25% is added.
(3) 14 is what percent of 200?	(6) A 3% tax on a \$100 item adds dollars to the cost. A 3% tax on a \$1 item adds dollars to the cost.



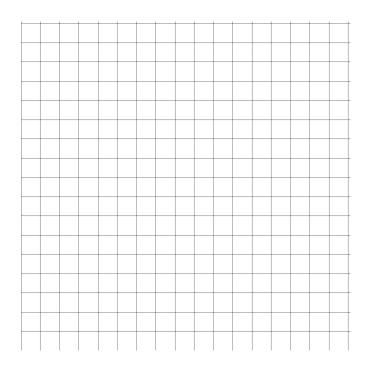
Name	Date
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Time	Hours after Midnight	Temp °F
8:00 pm	-4	-42
9:00 pm	-3	-42
10:00 pm	-2	-41
11:00 pm	-1	-40
Midnight	0	-39
1:00 am	1	-39
2:00 am	2	-38

South Pole Temperatures



The table shows temperatures at the South Pole before and after midnight on October 10–11, 2019. Plot the data on graph paper and label the plot. Describe any patterns you see.





Name	Date
Gas Mileage	
My car drives 570 mi with 15 gal of gas.	
(1) Use mental math and/or pencil and paper to answer:	
(a) If I drive 57 mi, I'll use gal.	
(b) If I drive 5,700 mi, I'll use gal.	
(c) If I have 5 gal left, I can drive more mi.	
(d) I can drive mi with 30 gal.	
(2) Calculate both unit rates for the proportional relationship you like. Write the answers here, and include the units.	o. Use a calculator if
(3) Answer these additional questions:	
(a) If I drive 532 mi, I'll use gal.	
(b) If I have 11 gal left, I can drive more mi.	
(4) Make a two-column table using your answers to (1a), (1c). Then use graph paper to plot the values in the table. Labe	



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Positive and Negative Numbers

(1) Which of the numbers 5, $-7, \frac{2}{3}, -\frac{1}{2}$ is farthest from 0 on the number line? Which is closest to 0?

- (2) True or false: $\frac{1}{2} > -8$.
- (3) Explain why -(-0.2) = 0.2 makes sense.



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name	Date

Planting Corn



A farmer uses a tractor to plant corn quickly in the springtime. The farmer plants 216 acres every 12 hours. Create a formula for the number of acres the farmer plants in n hours.



Name		Date	
	Song Length	Distribution	
(1)	Look up the 50 top songs on a music streinto a spreadsheet.	aming service. Type each song's duration	
(2)	(2) Write a sentence about the data giving a measure of center and a measure of variability.		
(3)	Make a histogram of the data. (Use technology, or draw it in the space provided or on another sheet of paper.)		
(4)	Write a sentence describing the overall pattern of the distribution and any striking deviations from the overall pattern.		
(5)		back online and repeat (1)–(4). In what way o look similar? What differences would you	



Name	Date

Evaluating an Expression

Pencils down If r = 1.748, what is the value of 0.96r + 0.04r - r?



Name	Date

Truckload of Gravel

How much of a $\frac{3}{4}$ -ton truckload is $\frac{2}{3}$ ton of gravel?

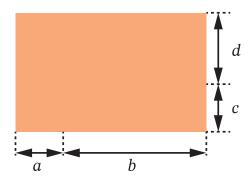


Name				Date	
V	/eekda	ys and W	Veeken	d Days	
In the month of Febru some questions about	•		0 weekdays	s and 8 weekend days. Here	are
(1) (Circle all of t	he correct 20:8	answers.) Th		veekdays to weekend days w 5:7	'as
(2) There were	times a	s many weel	κdays as wε	eekend days.	
(3) True or false:	5 7 of the da ₇	ys that mont	h were wee	ekdays.	
(4) Approximate	ly what pe	rcent of the c	lays that m	onth were weekdays?	



Name	Date

Area Expressions



The diagram shows a rectangle. The variables a, b, c, and d are lengths in meters.

(1) Using the variables, write three different expressions for the area of the rectangle.

(2) Choose two of your expressions and show that they are equivalent by applying properties of operations.

(3) State the property or properties you used.



Name	e <u></u>	Date			
Coordinate Triangle					
	(1)	What is the area of the triangle in the coordinate plane with vertices $(1, 2)$, $(-5, 2)$, and $(-8, 9)$?			
	(2)	How does the area change if we change the third vertex to $(-3, 9)$?			



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Pencils down Think about the equation $241p = \frac{3}{4}$.

- (1) Is there a whole number that solves it? Yes No
- (2) Is there a non-whole number that solves it? Yes No
- (3) Convince a classmate that your answers are right.



Name	Date	
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Dividing Decimals and Fractions

Use pencil and paper.

(1)
$$81.53 \div 3.1 = ?$$

(2)
$$\frac{7}{8} \div \frac{2}{3} = ?$$

(3) Check both of your answers by multiplying.