WORD PROBLEMS WITH MEASUREMENT

4th Grade



Printable & Google Slides

WORD PROBLEMS WITH MEASUREMENT

4th grade

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WORD PROBLEMS

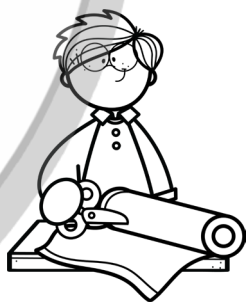
distance and length

Directions: Solve the word problems below involving distance and length.

1 Lina is painting a fence that goes around her backyard. The fence is 64 feet long in total. She painted half of the fence yesterday. Today, she has painted another 12 feet of the fence so far. How many feet of fence does Lina have left to paint?



2 Oliver has 9 rolls of wrapping paper. 6 of the rolls have 3 meters of paper each. The other 3 rolls have 4 meters of paper each. How many meters of wrapping paper does Oliver have in total?



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distance decoding

Directions: Solve the word problems below involving distance and length to decode the secret word. For the number in each answer, find the corresponding letter in the decoding table and write it in the box. What is the secret word?

KEY

A	B	C	D	E	F	G	H	I	J	K	L
23	68	8	4,620	5	108	1,324	2,409	1,652	4,672	28	4

M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
72	6	1,442	75	3,890	111	18	16	26	1,308	4,554	4,885	1,226	206

1 Vivek is building a tower of blocks. He uses 6 blocks that are 5 centimeters tall, 4 blocks that are 6 centimeters tall, and 2 clocks that are 7 centimeters tall. How tall is Vivek's tower?

SECRET LETTER

2 A sunflower in a garden grew $11\frac{1}{2}$ feet in 6 weeks. If the sunflower grew an equal amount each week, how many inches did it grow per week?

SECRET LETTER

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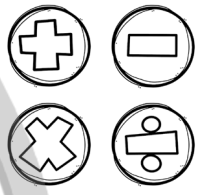
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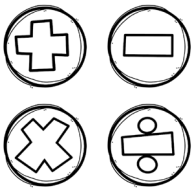
four operations

Directions: To solve each word problem below, you will need to use all 4 operations (multiplication, division, addition, and subtraction). Solve each problem. Shade in each operation as you use it to ensure you have used all 4.

1 The grass in Jameson's yard starts off 8 millimeters high. It grows 4 millimeters a day for 7 days until Jameson decides to mow the lawn. The lawnmower cuts the grass in half. Jameson then decides the lawn is still too long, so he goes back and cuts an additional 4 millimeters off the grass. How long is the grass now?



2 Pablo is driving from Miami, Florida to Richmond, Virginia. The distance from Miami to Charleston is 584 miles, and the distance from Charleston to Richmond is 412 miles. Pablo plans to drive an equal distance each day for 3 days. On the first day, Pablo drives 65 miles an hour for 3 hours. How many miles left does Pablo have to drive on the first day?



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WORD PROBLEMS

supermarket spree

Directions: You are doing the grocery shopping for your family this week. Solve the word problems below involving masses. Cross each item off your list once you solve the corresponding problem.

- Bananas 
- Apples 
- Turkey 
- Cheese 
- Salmon 
- Cereal 
- Yogurt 
- Rolls 
- Kitty litter 

1. One bunch of bananas weighs 785 grams. Another bunch of bananas weighs 0.824 kilograms. What is the difference in mass between the two bunches?

2. Your mom has asked you to buy a dozen apples. Each apple weighs $4\frac{1}{2}$ ounces. What is the total weight of all the apples? Express your answer in pounds and ounces.

3. At the deli counter, you buy some cheese and sliced turkey. The total weight of the two items together is 1 pound 8 ounces. If the package of turkey weighs 12 ounces, how much does the cheese weigh?

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4. You need to buy some salmon for dinner. Your grandparents are coming over for dinner, so there needs to be enough salmon for 7 people. You calculate that each person will eat $\frac{5}{8}$ of a pound of salmon. If it is only sold by the whole pound, how many pounds should you buy?

5. When choosing which cereal to buy, you see that the name-brand cereal costs $3 for 900 grams. The store-brand cereal has the same price, but the weight of the package is 35 ounces. If one ounce is approximately 28 grams, which type of cereal is a better buy? Explain.

6. You buy a pack of 6 strawberry yogurts. Each cup of yogurt weighs 220 grams. You also buy an economy-size tub of peach yogurt that weighs 1.3 kilograms. What is the total weight of all the yogurt?

7. You are choosing rolls from the bakery. A bag of half a dozen rolls weighs 600 grams. How many rolls are in a bag that weighs 2 kilograms?

8. You pick up an 18-pound bag of kitty litter for your cats Tigger and Simba. Every day, you put $1\frac{2}{8}$ pounds of litter in Tigger's box and $\frac{3}{4}$ of a pound in Simba's box. How many days will this new bag of litter last?

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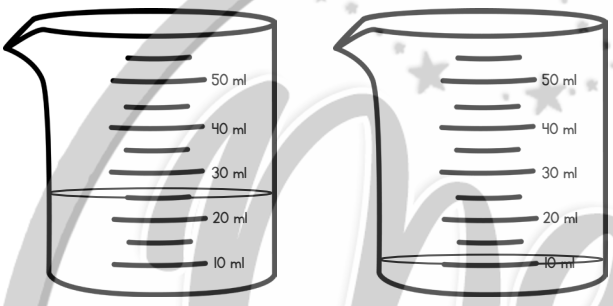
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WORD PROBLEMS

beaker math

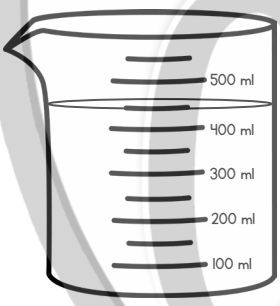
Directions: Samuel is doing science experiments with different liquids in beakers. Answer the questions below.

1



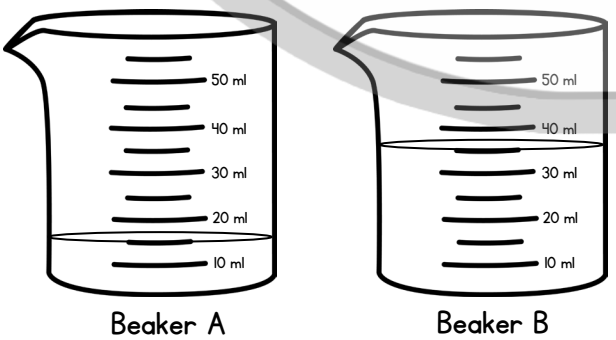
Samuel pours the liquid from beaker A into beaker B. How much liquid is now in beaker B?

2



Samuel pours an equal amount of liquid from the beaker shown into 5 smaller beakers. How much liquid does Samuel pour into each small beaker?

3



Beaker A and beaker B are both filled with water. Samuel wants to redistribute the water so there is an equal amount in each beaker. How much water should he pour from beaker B into beaker A?

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WORD PROBLEMS

train schedules

Directions: The table below shows train schedules, but some times are missing. Use the clues below to determine the missing information. Fill in the missing information in the table.

Origin	Destination	Departure Time	Arrival Time	Journey Duration
Valley City	Mapleton	5:42 am		
Marion	Elmwood			2 hr 8 min
Cedar Lake	Fairview		8:56 am	
Madison	Arlington	10:39 am		
Poplarville	Springfield	4:12 pm		
Clinton	Marion		7:33 pm	

1. It takes the train an hour and 24 minutes to travel between Valley City and Mapleton.

2. The train from Marion to Elmwood arrives at 9:14 am.

3. The Cedar Lake-Fairview train departs at 8:07 am.

4. The journey from Madison to Arlington takes half as long as the journey from Marion to Elmwood.

5. Poplarville and Springfield are 186 miles apart. The train travels at a constant speed of one mile per minute.

6. The journey from Clinton to Marion is 43 minutes longer than the trip from Cedar Lake to Fairview.

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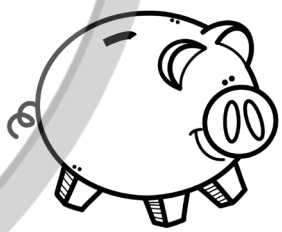
money

Directions: Solve the word problems below involving money.

1. Cedar Lakes Elementary school is hosting a bake sale fundraiser. They are selling cupcakes for $2.50 each. If they sell 16 cupcakes, how much money have they raised?



2. Rajesh has been saving his allowance for 6 weeks. He just used his allowance to buy a video game for $48, and he has $36 left over. How much allowance does Rajesh receive each week?



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WORD PROBLEMS

let's go shopping

Directions: The table below shows the price of different items at a department store. Use the table to answer the questions.

Item	Sweater	Socks	Scarf	Skirt	Tie	Hat
Price	$38.99	$12.75	$15.40	$29.20	$19.95	$23.15

1. Quinn bought a sweater, a skirt, and a hat. How much did Quinn spend?

2. The socks come in a pack of 3 pairs. How much does each pair of socks cost?

3. Ozzy buys 3 ties. He pays with a $100 bill. How much change will Ozzy receive?

4. There is a 50% off sale. What is the new price of a scarf and a skirt together?

5. Tori has $40. What combination of items can she purchase that will leave her with the least amount of money left over?

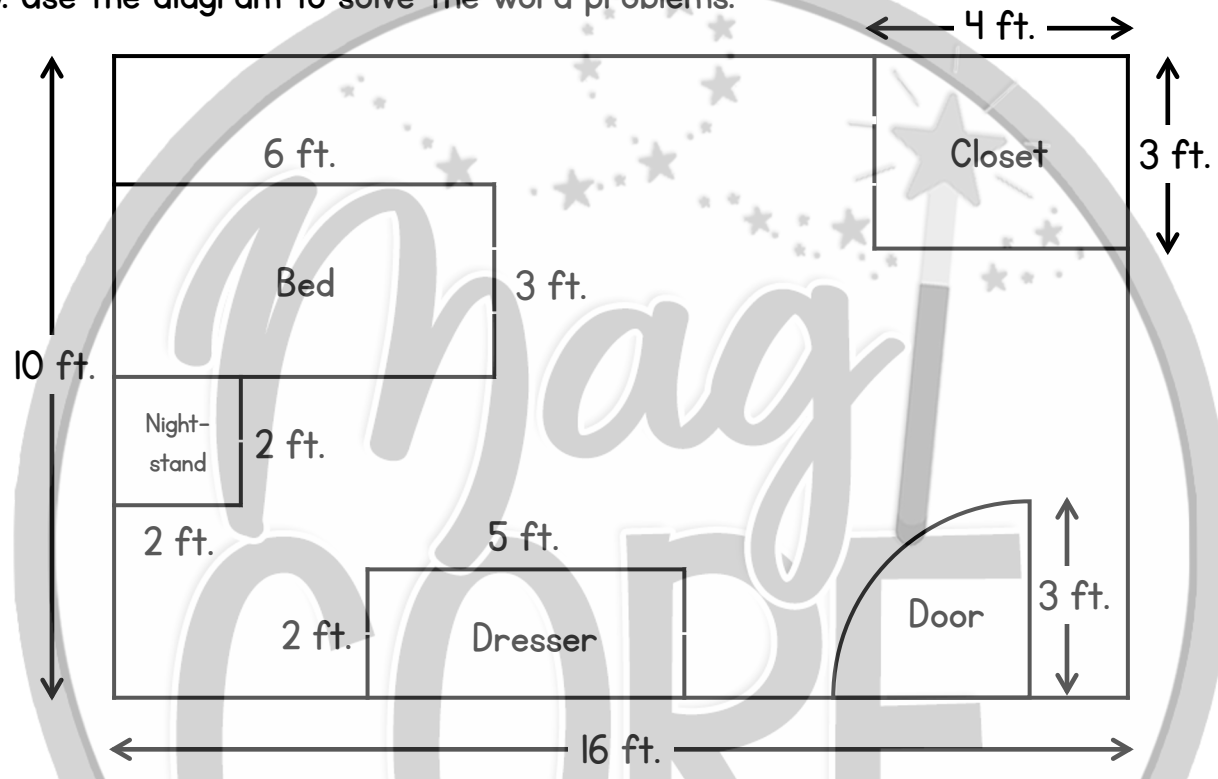
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WORD PROBLEMS

room remodel

Directions: Rosie's parents are letting her redecorate her room. A diagram of her room is below. Use the diagram to solve the word problems.



1 First, Rosie wants to get a new carpet for her room. If the new carpet will cover the whole floor except for the closet, how many square feet of carpet will she need?

2 The carpet normally costs $3.75 per square foot, but Rosie's uncle works at the flooring store and gets her a discount of 25 cents off per square foot. How much will the carpet cost?

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3 Rosie chose a new bed for her room. The mattress is 14 inches thick. When placed in the bed frame the mattress is a foot and a half off the floor. How high off the floor is the top surface of the mattress? Express your answer in feet and inches.

4 Rosie has picked out an armchair she wants to put in her room as a reading chair, but she's worried the chair won't fit through the door. She knows the opening of her bedroom door is 3 feet wide, but the website where she wants to buy the chair only lists the dimensions in centimeters. If the chair is 96 centimeters wide, and there are approximately 2.5 centimeters in an inch, should Rosie buy the chair? Explain.

5 The walls in Rosie's room are nine feet tall. It takes Rosie and her dad an hour and a half to paint the wall Rosie's bed is against. How long did it take them to paint each square foot?

6 Rosie and her dad bought one gallon and one quart of paint. Each gallon of paint is 128 fluid ounces, and a quart is a quarter of a gallon. They used up half the paint on the first coat. Then, they used up $\frac{3}{4}$ of the remaining paint on the second coat. How many ounces of paint are left?

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WORD PROBLEMS

test review

Directions: Solve the word problems involving measurements.

1. Hilda has a 3-kilogram bag of potting soil. She pours 2,450 grams into a flowerpot. How much potting soil is left in the bag?



2. Mikhail ran a half marathon, which is 13 miles. It took him 9 minutes to run each mile. How long did it take Mikhail to finish the half marathon?



3. A bottle of liquid cough medicine contains 128 milliliters. There are 8 doses of medicine in the bottle. How many milliliters are in each dose of medicine?

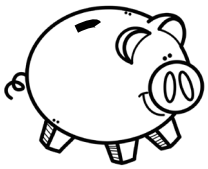


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4 Violet worked on homework from 3:25 pm to 4:48 pm. Her older sister Theresa worked on homework for 33 minutes longer than Violet. If Theresa started her homework at 4:06 pm, at what time did she finish?



5 Every week, Vicente receives $5 in allowance. Every week, he buys one candy bar for $0.90 and saves the rest of his allowance. After 6 weeks, how much money has Vicente saved?



6 A rosebush in Joshua's garden was three and a half feet tall. One month later, it had grown 14 inches. Joshua trimmed 8 inches off the top of the bush. How tall is the rosebush now?



7 Drea is hosting a dinner party. She made a lasagna that weighs $3\frac{1}{2}$ pounds. If there are 14 people at the dinner party, how many ounces of lasagna can each person eat?



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