

This packet is for students entering 8th grade or 7th Accel Math for the 2025–2026 school year.

 If this packet gets lost, there will be a link on the Gurrie Website > Students.

Research studies have shown that during an extended summer vacation, children lose an average of 2.6 months worth of knowledge. This packet is a tool that can be used to keep students working and motivated to continue their math learning during these summer months. Your student should work on this packet a little each week over the long vacation. In addition to the packet, your student also has the ability to log into their ALEKS account throughout the summer. (ALEKS is a weekly assignment for ALL Gurrie students). Students are recommended to complete 90% of their topics from Course 1 (current program).

As a reward, students that correctly complete (and show all work) in the packet and reach 90% completion on their ALEKS topics by the first day of school will earn a surprise.

Good Luck and have a wonderful summer vacation!

Thank you,
Gurrie Middle School
8th Grade Math Department
Ms. Neadly, Ms. Garcia, & Ms. Courtney



Assessment Reference Sheet

Grade 7

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 mile = 5280 feet

1 mile = 1760 yards

1 mile = 1.609 kilometers

1 kilometer = 0.62 mile

1 pound = 16 ounces

1 pound = 0.454 kilograms

1 kilogram = 2.2 pounds

1 ton = 2000 pounds

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 gallon = 3.785 liters

1 liter = 0.264 gallons

1 liter = 1000 cubic centimeters

Triangle	$A = \frac{1}{2}bh$	
Parallelogram	A = bh	
Circle	$A = \pi r^2$	
Circle	$C = \pi d$ or $C = 2\pi r$	
General Prisms	V = Bh	

Name:	

CZ

Seventh Grade Swamer Packet For Students Entering 8th Grade or 7th Grade Advanced Math

Write each number in scientific notation.

Write each number in standard form.

Simplify each expression. (NO CALCULATOR!)

Solve & Check each equation.	Box your answer.	SHOW ALL	OF YOUR \	NORK!
(NO CALCULATOR!)				

$$21.) 4 = 4 + 7y$$

Check:

Check:

23.)
$$\frac{n}{-4} + 5 = -1$$

Check:

Check:

Translate into an equation and solve. (NO CALCULATOR!)

24.) Three more than the product of a number and 4 is 15. Find the number.

Equation: _____ Solution: ____

Show work here:

	a new sound system that costs \$149. She plans on saving an any weeks will it take Emily to save enough money to buy the and then solve it.
Equation:	Solution:
Show work here:	
Write each ratio as a fraction in	n simplest form. (NO CALCULATOR!)
26.) 12 feet: 10 yards	27.) 75 seconds: 2 minutes
Find the unit rate. Round to the your answers. Show all of your was 28.) 18 people in 3 vans	nearest hundredth if necessary. Include labels with work. (CALCULATOR ALLOWED) 29.) 2500 Calories in 24 hours
Choose the best unit price. Shows 30.) \$12.95 for 3 pounds of candy a	w all of your work! (CALCULATOR ALLOWED) or \$21.45 for 5 pounds of candy
ANSWER:	

Find the actual distance between each pair of cities. Round to the nearest tenth if necessary. Show all work. (CALCULATOR ALLOWED)

Problem #	Cities	Map Distance	Scale	Actual Distance
31.)	Kokomo, IN and Chicago, IL	8 cm	1 cm = 25 km	

Work Space for #31:

32.) The scale is 2 inches: 4 feet, find the scale factor.

Complete the table. (CALCULATOR ALLOWED)

Problem #	Fraction in simplest form	Decimal	Percent
33.)			12.5%
34.)			8 1/4 %
35.)		0.55	
36.)	<u>5</u> 8	-	

Find each number. Round to the nearest (CALCULATOR ALLOWED)	tenth if necessary.
37.) 45 is 150% of what number?	38.) What percent of 60 is 15?
39.) What is the total cost of a sweatshirt i $5\frac{1}{2}\%$?	if the regular price is \$42 and the sales tax is
ANSWER:	s a regular price of \$185. This weekend, the coat
ANSWER: 41.) A sports watch with an original price of : discount?	\$86 is on sale for \$60.20. What is the percent of
ANSWER:	

42.) Suppose your restaurant bill comes to \$28.35 and you leave a 20% tip on the amount before tax.	
ANSWER:	
Find the percent of change. Round to the neare percent of change is an increase or decrease. (
43.) original: 4 new: 6	
Find the simple interest for each principal, rate place. (CALCULATOR ALLOWED)	, and time. Round to the hundredths
44.) \$500 invested at $6\frac{1}{4}\%$ for 5 years	45.) \$769 borrowed at 5% for 13 months

deposits or withdraws?	
ANSWER:	
47.) Joe has \$1,800 from his summer job tand invests the money at 5% simple interes	to invest. If Joe wants to have \$2,340 altogether st, in how many years will be have \$2,340?
ANSWER:	
Solve the following proportions. SHOW A (CALCULATOR ALLOWED)	ALL OF YOUR WORK!
49 \ 3 <u>1</u> 2	$\frac{7}{100} - \frac{m}{100}$
48.) $\frac{3}{d} = \frac{12}{20}$	49.) $\frac{7}{8} = \frac{m}{48}$
50.) A train travels 146 miles in 2 hours, at nours?	this rate how many miles will it travel in 3.5
INSWER:	

46.) Joey opened a saving account that pays 6.5% simple interest. How much money will be in

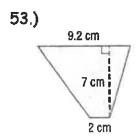
Joey's account after 3 years if he deposited \$250 at the beginning and never made any

51.) An architect built a model of a 220-foot building that he is designing. The model is 25 inches tall and 10 inches wide, how wide is the actual building?

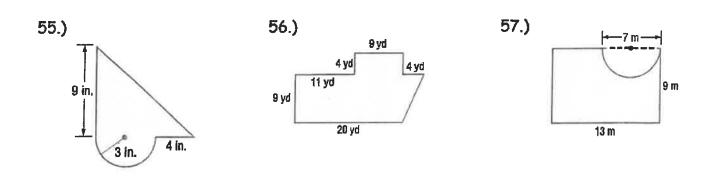
ANSWER:				
WIAD ALTE			_	_

Find the area of the following shapes. Include appropriate units and round your answer to the nearest tenth if necessary. SHOW ALL OF YOUR WORK! (CALCULATOR ALLOWED)

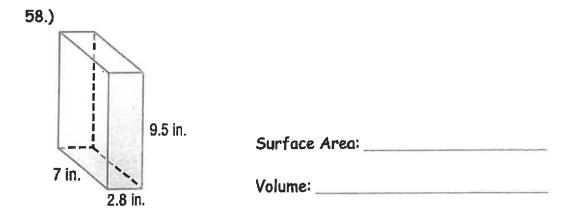
52.) A parallelogram with base =
$$4\frac{2}{5}$$
 feet and height = 5 feet.



54.) trapezoid with bases: 7 yd and 8 yd height: 8.5 yd Find the area of the following shapes. Include appropriate units and round your answer to the nearest tenth if necessary. SHOW ALL OF YOUR WORK! (CALCULATOR ALLOWED)



Find the <u>surface area</u> and <u>volume</u> of each of the following. Include appropriate units and round to the nearest tenth. SHOW ALL OF YOUR WORK! (CALCULATOR ALLOWED)



59.) The cargo-carrying part of Billy's truck has a length of 8.3 meters, a width of 3 meters, and a height of 4.2 meters. What is the maximum volume of sand that Billy's truck can carry?
ANSWER:
60.) A packaging company needs to know how much cardboard will be required to make boxes 18 inches long, 12 inches wide, and 10 inches high. How much cardboard will be needed for each box if there is no overlap in the construction?
ANSWER:
ANSWER:
61.) How much frosting will be needed to frost a cake that is a rectangular prism with the length of 13 inches, a width of 10 inches, and a height of 4 inches?
ANSWER: