Summer Math Review Packet for students entering 8th grade

The problems in this packet should help you review math topics from this past school year.

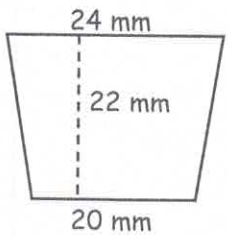
Basic Instructions:

- All problems should be completed without a calculator.
- Expect to turn in the completed packet to your math teacher on September 9, 2024.
- You may do work on this paper. If you choose to use other paper, please staple it onto this packet. Please show all your work.
- This packet will be counted as a test grade for the first marking period.

Remember: This is for your benefit to help you be more successful as you move into more advanced mathematics classes.

Lesson #71

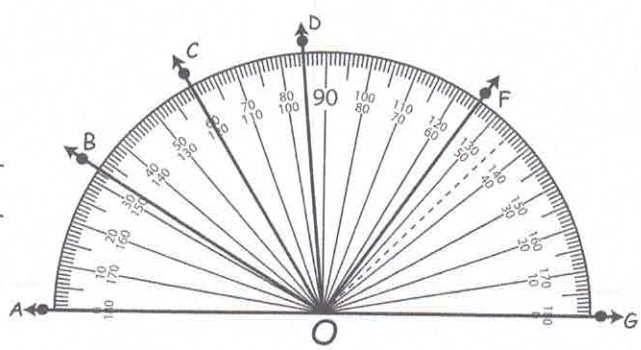
1. $39 - (-16) = ?$
2. What is the probability of rolling a 6 on one roll of a die?
3. Solve for x. $\frac{12}{x} = \frac{10}{20}$
4. Write 12% as a decimal and as a reduced fraction.
5. The answer to a division problem is called the _____.
6. Find the area of the trapezoid.



7. $45 \div 5 + 2 \cdot 3 + 2^2 = ?$
8. $31 + (-15) = ?$
9. $367{,}816 + 475{,}296 = ?$
10. Put these integers in increasing order. -24 -10 -1 -14 3
11. $21 \times 58 = ?$
12. Write 7.006 using words.
13. Order these units by increasing length. yard inch mile foot
14. Of the 20 questions on her social studies test, Janice got 15 correct. What percent of the problems did she get correct?

15. $5 \div 1\frac{1}{4} = ?$
16. $\frac{9}{12} \times \frac{24}{27} = ?$
17. Simplify. $8(3a - 4b + 5c + 9)$
18. Round 164,287,076 to the nearest ten million.
19. Evaluate $3x + 4y + 2z$ when $x = 3$, $y = 2$, and $z = 1$.
20. Use the protractor to give the measurement of each angle.

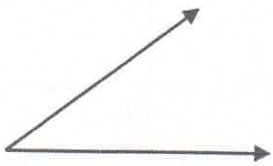
∠GOF → _____ ∠AOC → _____
∠GOD → _____ ∠GOC → _____



1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.

Lesson #72

1. $6 \cdot 5 - 10 \div 2 + 3 = ?$
2. Which is greater, 0.03 or 30%?
3. $16\frac{3}{8} - 12\frac{7}{8} = ?$
4. $0.008 \times 0.02 = ?$
5. Name the type of angle.

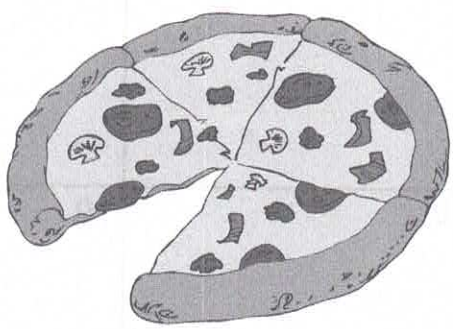


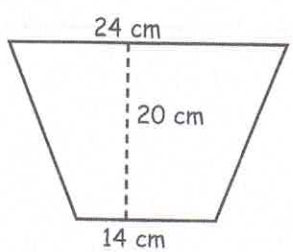
6. $5.2 \div 0.4 = ?$
7. Put $\frac{10}{12}$ in simplest form.
8. $-81 - (-70) = ?$
9. Find the area of a triangle with a base of 12 mm and a height of 3 mm.
10. How many feet are in 4 miles?
11. Write the formula for finding the surface area of a rectangular prism.
12. What is the P(5, 5) on 2 rolls of a die?
13. Each piece of clothing contributed to the clothing drive is listed as a positive number and once it is donated to a person or family, it is recorded as a negative number. The clothing drive began with 508 items. How many items were on the shelves after the following contributions and donations? −8, −29, +17, −12, −9
14. Simplify. $5(2a + 4b - 2)$
15. Find 80% of 400.
16. $61 + (-29) = ?$
17. Find $\frac{3}{7}$ of 28.
18. $16{,}000 - 7{,}936 = ?$
19. Write $\frac{3}{25}$ as a decimal and as a percent.
20. The absolute value of a number is the distance between that number and _____ on a number line.

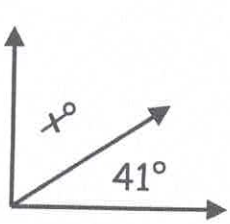
1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.

Lesson #73

1. Distribute and simplify. $6(3a + 7b - 4) + 4(2a - 3)$
2. Put these decimals in decreasing order. 4.2 4.02 4.24 4.00
3. $28 - (-15) = ?$
4. The children at the birthday party ate $12\frac{1}{2}$ pizzas. Of this amount, $4\frac{1}{3}$ were pepperoni pizzas, and $3\frac{1}{2}$ were cheese pizzas. The remaining pizzas were sausage pizzas. How many sausage pizzas were eaten?
5. What is the P(T, T, H, H) on four flips of a coin?
6. $\frac{4}{5} \times \frac{15}{24} = ?$
7. How many quarts are in 8 gallons?
8. $345 \times 34 = ?$
9. $3{,}000{,}000 - 1{,}562{,}447 = ?$
10. When $x = 3$ and $y = 4$, what is the value of $x(4 + y)$?
11. $130 + (-86) = ?$
12. $42 \div 6 + 8 \cdot 2 - 5 = ?$
13. Calculate the area of the trapezoid shown to the right.
14. $-4 \bigcirc -14$
15. Write 0.84 as a percent and as a reduced fraction.
16. $3{,}520 \div 5 = ?$
17. What number is 25% of 40?
18. A nine-sided polygon is called a(n) _____.
19. $17\frac{2}{9} - 8\frac{7}{9} = ?$
20. **Two angles whose measures add up to 90° are complementary angles.** $\angle x + 41° = 90°$. Find the missing measurement.







1.	2.	3.	4.
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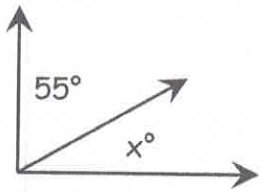
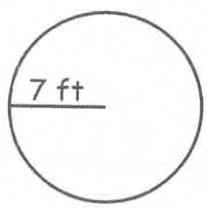
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.

Lesson #74

1. On the Celsius temperature scale, water freezes at _____.
2. $110 - (-55) = ?$
3. Lena's baby weighs 82 ounces. Write the baby's weight in pounds and ounces.
4. Find the value of x. $\frac{8}{12} = \frac{x}{156}$
5. $3[5 + 2(3 + 3)] = ?$
6. Find the median of 16, 49, 86, 34, and 12.
7. $3\frac{7}{10} + 2\frac{2}{5} = ?$
8. $56 + (-28) = ?$
9. Write 65% as a decimal and as a reduced fraction.
10. A(n) _____ has seven sides.
11. Find the missing measurement.



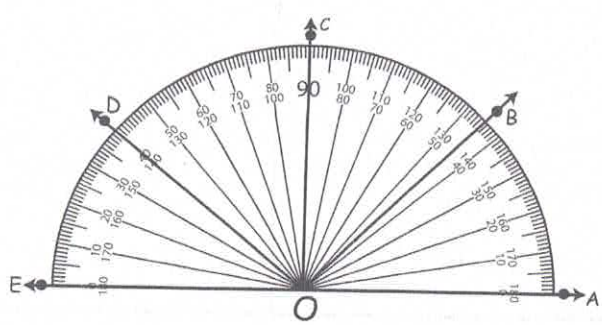
12. What is the value of $3x + 2y - 5$ when $x = 3$ and $y = 2$?
13. Find the volume of a box that is 10 in. long, 5 in. wide, and 3 in. tall.
14. What is the P(3, 2, 1) on three consecutive rolls of a die?
15. It is 7:10. What time will it be in 5 hours and 10 minutes?
16. How many feet are in 4 miles?
17. Find the area of the circle.



18. $14 \div 0.07 = ?$
19. $-|-17| = ?$
20. Find the measure of each angle.

∠EOD → ____

∠AOD → ____



1.	2.	3.	4.
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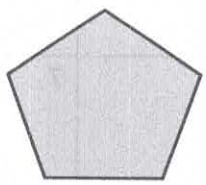
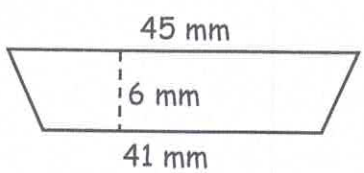
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.

Lesson #75

1. $\sqrt{49} + \sqrt{16} = ?$
2. $-38 - (-38) = ?$
3. Find $\frac{7}{8}$ of 56.
4. $345{,}766 + 892{,}867 = ?$
5. Give the name of this shape.



6. Make a factor tree for 54.
7. $3.6 - 1.8362 = ?$
8. Round 18.362 to the nearest hundredth.
9. Some of Sharon's plants need to be watered every day, some need to be watered every other day, and others need water every third day. If Sharon waters all of them today (Monday), on which day of the week will she water them all again?
10. Determine the value of $a(8 + b) - c$ when $a = 5$, $b = 2$, and $c = 10$.
11. A seven-sided shape is called a(n) _____ .
12. $9\frac{3}{5} + 4\frac{2}{3} = ?$
13. What is the area of the trapezoid?



14. $7(-3)(2) = ?$
15. List the first five prime numbers.
16. $3{,}624 \times 5 = ?$
17. Find the area of a triangle with a base of 10 mm and a height of 6 mm.
18. Simplify. $6(2x - 5y - 6) + 2(3x - 2)$
19. $\frac{-240}{-8} = ?$
20. $135 + (-65) = ?$

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.