St. Louis School
2024 Summer Math
Entering 7th Grade
Math 7 & 8

All students in middle school are required to complete summer math work. This year, to reinforce learning during the summer and promote growth, students will be using IXL online in addition to worksheets for math practice.

I. **IXL** – Each class has specifically assigned skills in IXL. IXL is an online program geared toward fluency practice. Students simply access the list of skills created by their teacher and click on a link to select an assigned skill. The link will take students to the skill where they login to begin. Students will use their St. Louis account to log on as they have done all school year. Link to IXL

Students should pace themselves by completing five concepts each month at a level of 80% proficiency (five by June 26, an additional five by July 28, and five more by August 23). Teachers will be monitoring students' progress throughout the summer. Failure to complete the suggested skills will result in a lower effort grade.

Please contact Mrs. Zulma Whiteford at zwhiteford@stlouisparish.org if you have any questions or concerns about IXL.

II. **Worksheets** – Scroll down to print the worksheets.

- **Show all work either on the worksheet or on looseleaf** in order to receive credit. Answers alone without supporting work will not receive credit.
- The looseleaf **MUST** include the student's name and be attached to the packet.
- Make sure to number the problems clearly. Work should be neat and organized.
- Class notes may be used for reference.

Complete some problems each week. Do not wait until the end of summer to complete the packet. This will allow you to maintain and improve your skills and help you to be successful next year.

All work should be **completed and turned in during the first week of school**. This packet will count as a **15-point assignment with five points awarded per trimester.**

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Page 1 Integers

1.	85 + (-96) =	2.	80.432 + 57.907 =	3.	86 + (-38) =
4.	22 + (-41) =	5.	-18 + (-45) =	6.	-32 + 48 =
7.	6 + -33 =	8.	6 + (-47) =	9.	(-78) + 69 =

10.	1 - 3 =	11.	2 - (-5)=	12.	6 - (-9) =
13.	-7 - (-1) =	14.	-7 - 4 =	15.	3 - (-2) =
16.	-1 - 9 =	17.	2 - 9 =	18.	-8 - (-1) =

19.	(-4)(-12) =	20.	(-8)(8) = -64	21.	(-8)(10) =
22.	5(1) = 5	23.	(-10)(11) =	24.	(-3)(-8) =
25.	(-9)(-6)(2) =	26.	(-10)(-7)(-4) =	27.	(7)(-12) =

28.	$-48 \div -6 =$	29.	$-81 \div -9 =$	30.	$-18 \div 6 =$
31.	$-44 \div -4 =$	32.	$10 \div -2 =$	33.	$35 \div -5 =$

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Page 2 Add/Subtracting Fractions and Mixed Numbers

1. $\frac{5}{4} - \frac{3}{4}$

2. $\frac{3}{2} + \frac{1}{2}$

3. $-\frac{4}{5} - \frac{1}{5}$

4. $\frac{1}{3} - \left(-\frac{5}{3}\right)$

5. $\frac{1}{3} + \frac{3}{8}$

6. $\frac{9}{5} + \left(-\frac{4}{3}\right)$

7. $2 - \frac{13}{8}$

8. $4\frac{1}{4} + \frac{2}{3}$

9. $-\frac{10}{7} + \frac{1}{6}$

10. $2\frac{3}{8} + \frac{5}{6}$

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Page 3 Multiplying/Dividing Fractions and Mixed Numbers

Find each product or quotient. Simplify when needed.

1. $-\frac{5}{4} \cdot \frac{1}{3}$

2. $\frac{8}{7} \cdot \frac{7}{10}$

3. $\frac{9}{4} \div \frac{5}{2}$

4. $-\frac{2}{3} \cdot \frac{5}{4}$

5. $-2 \cdot \frac{3}{7}$

6. $-1\frac{1}{4} \cdot 9$

7. $-2\frac{2}{3} \cdot 4\frac{1}{10}$

8. $-\frac{1}{5} \div \frac{7}{4}$

9. $-\frac{3}{2} \div -\frac{7}{10}$

10. $-3\frac{5}{9} \div 3$

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Page 4 Dividing Decimals

Find each quotient.

1. $0.5568 \div 0.2$

2. $0.128 \div 0.4$

3. $0.24 \div 0.03$

4. $1.2 \div 1.5$

5. $1.452 \div 0.6$

6. $0.801 \div 0.9$

7. $8.5068 \div 0.12$

8. $0.1995 \div 0.7$

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Page 5 Identifying Triangles

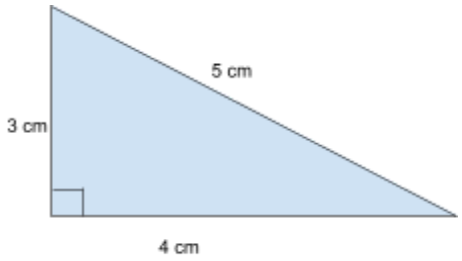
Match the definition to the word.

1. ___Right Triangle
2. ___Obtuse Triangle
3. ___Acute Triangle
4. ___Equiangular Triangle
5. ___Scalene Triangle
6. ___Isosceles Triangle
7. ___Equilateral Triangle

a. A triangle with 3 congruent sides
b. A triangle with 2 congruent sides
c. A triangle with one 90 degree angle
d. A triangle with no congruent sides
e. A triangle with one angle greater than 90°
f. A triangle with 3 acute angles
g. A triangle with 3 equal angles

Classify each triangle by angles and sides. See list above.

8.



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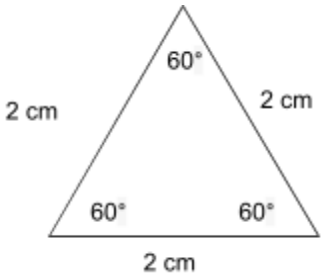

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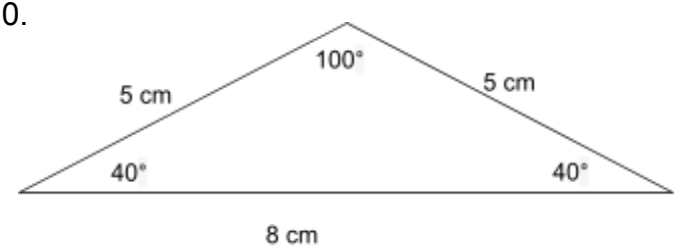
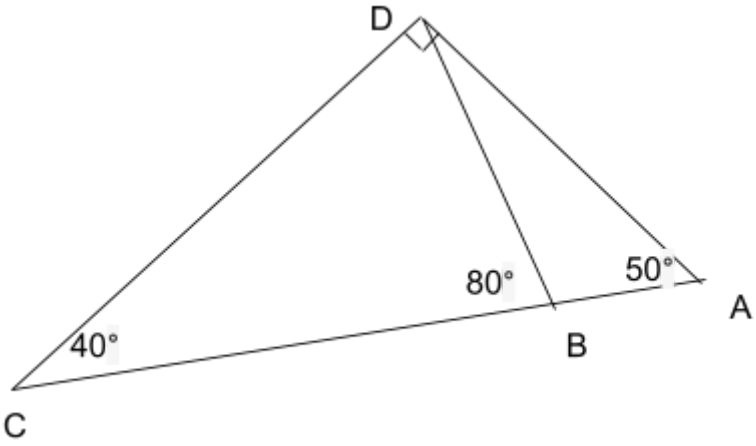


11. Find the missing angles and classify each triangle.



∠BDC = _____
∠BDA = _____
∠ABD = _____

$\triangle ABD$_____
$\triangle ADC$_____
$\triangle BCD$_____

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Page 6 Percents

A. Express each as a percent. Round to the nearest tenth if needed.

1.	0.45	2.	0.172	3.	0.1	4.	4.78
5.	0.012	6.	0.05	7.	12.6	8.	0.79

B. Write each as a fraction or mixed number in simplest form.

1.	25%	2.	4%	3.	5 %	4.	60%
5.	200%	6.	16%	7.	50 %	8.	80%

C. Write each as a decimal.

1.	90%	2.	30%	3.	115%	4.	9%
5.	7%	6.	65%	7.	14 ½ %	8.	62. 8%

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Page 7 Tax, Tip, and Discount

1. A sled costs $49. Tax is 6%. Find the total price.

2. Original cost of comic book $3.90. It is on sale 20% off. Find the sale price.

3. Dinner costs $32. You tip 15% Find the total price.

4. Dinner costs $85. You tip 20% Find the total price.

5. Cost of shoes $46. Tax is 5%. Find the total price.

7. A coat originally costs $89. It is on sale 30% off. Find the sale price.

8. Concert tickets cost $120. Tax is 8%. Find the total price.

8. Dinner costs $64. You tip 18%. Find the total price.

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Page 8 Order of Operations

1. $3(6.83 + 7.4)$

2. $2.4 + 7 \times 5.1$

3. $9 + 72 \div 9$

4. $5(10.2 - 1)$

5. $(5 + 16) + 7 - 2$

6. $40 \div 4 - (5.6 - 3.9)$

7. $7 + 10 \times 5 + 10$

8. $20 \div (4 - (10 - 8))$

9. $9 - 32 \div 4$

10. $8 - 4 \times 2$

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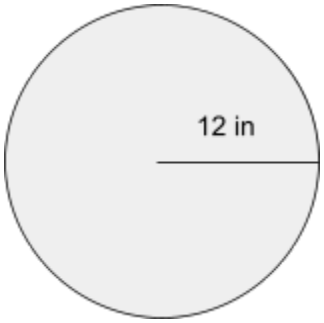
Page 9 Circumference and Area of Circles

Find the area of each. Use 3.14 for pi. Round your answer to the nearest tenth.

1.



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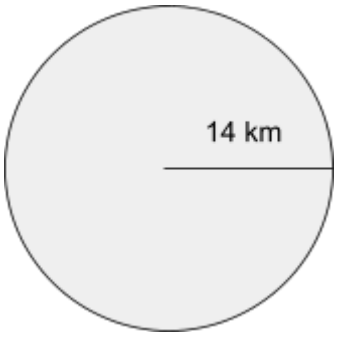

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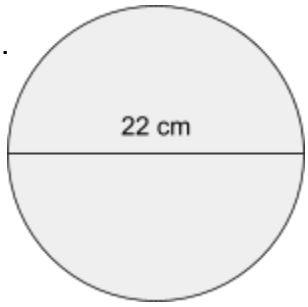

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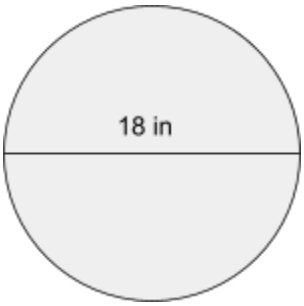
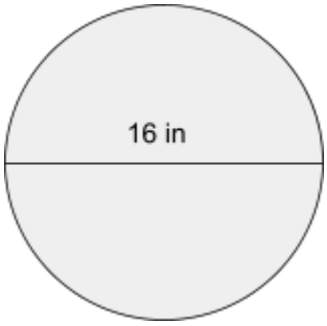


Find the circumference of each circle. Use pi = 3.14. Round your answers to the nearest tenth.

5.



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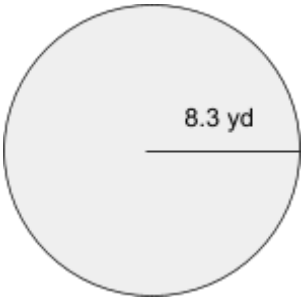

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Page 10 Triangle Angle Sum Practice

Solve for x in each triangle. (Triangles are not to scale.)

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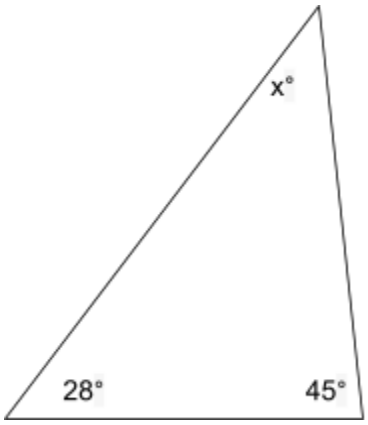

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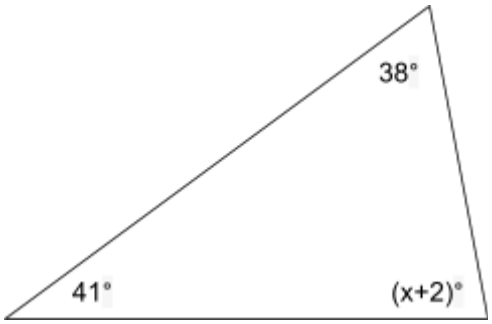

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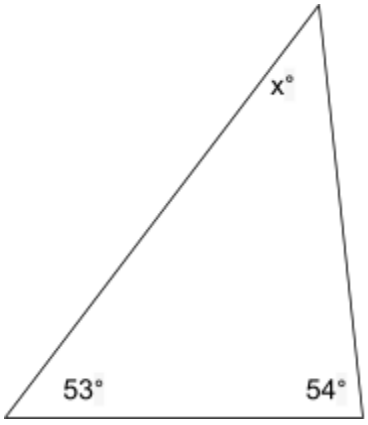

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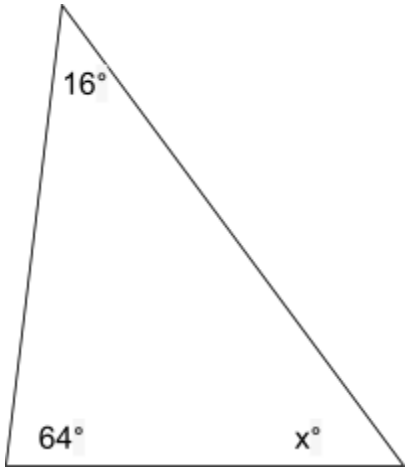

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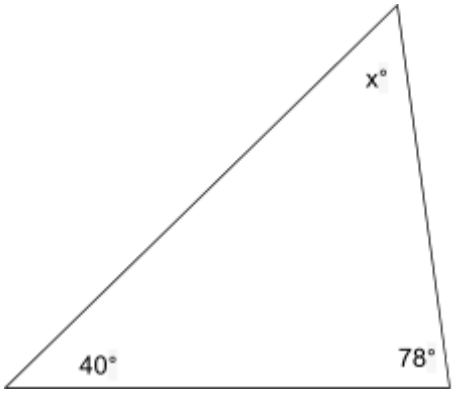

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