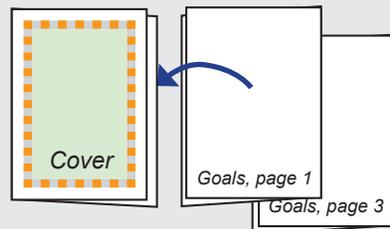


## Common Core Standards for Mathematical Practice

- MP1:** Make sense of problems and persevere in solving them.
- MP2:** Reason abstractly and quantitatively.
- MP3:** Construct viable arguments and critique the reasoning of others.
- MP4:** Model with mathematics.
- MP5:** Use appropriate tools strategically.
- MP6:** Attend to precision.
- MP7:** Look for and make use of structure.
- MP8:** Look for and express regularity in repeated reasoning.

### Making a Leaflet

Fold all three sheets in half as shown. Put goal pages 1-4 within cover sheet and staple along left edge.



Grade 7 Math "I Can" Goals Leaflet (Published 08/08/2014 & Updated 07/14/2022)

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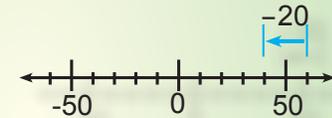
Name \_\_\_\_\_

## COMMON CORE STATE STANDARDS

# Grade 7 Math

# Goals Checklist

$\$400$   
plus 20% tax



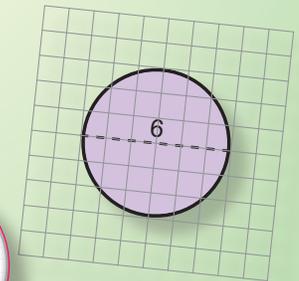
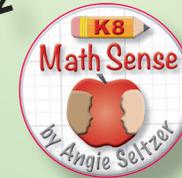
10% less  
than  $n$

$\pi(3^2)$

$\frac{60 \text{ grams}}{2 \text{ hours}}$



$-3n + n$



Courtesy of K8 Math Sense for 2022-2023

Name \_\_\_\_\_

Class \_\_\_\_\_ Date \_\_\_\_\_



For each goal that has been mastered, mark the box and write the date.



**EXPRESSIONS AND EQUATIONS**

**1 Use properties of operations to generate equivalent expressions.**

- 1. I can add and subtract linear expressions with rational coefficients.  \_\_\_\_\_
- 2. I can expand or factor linear expressions.  \_\_\_\_\_
- 3. I can interpret related expressions in real situations.  \_\_\_\_\_

**2 Solve real-life and mathematical problems using numerical and algebraic expressions and equations.**

- 1. I can use operations with whole numbers to solve multi-step problems.  \_\_\_\_\_
- 2. I can use fractions to solve multi-step problems.  \_\_\_\_\_
- 3. I can use decimals to solve multi-step problems.  \_\_\_\_\_
- 4. I can assess reasonableness of answers by using estimation.  \_\_\_\_\_
- 5. I can solve linear equations of the form  $px + q = r$  and  $p(x + q) = r$ .  \_\_\_\_\_
- 6. I can write linear equations to solve word problems.  \_\_\_\_\_
- 7. I can relate algebraic solutions to arithmetic solutions.  \_\_\_\_\_
- 8. I can write and solve linear inequalities for situations.  \_\_\_\_\_
- 9. I can graph and interpret solutions to inequalities.  \_\_\_\_\_



**RATIOS AND PROPORTIONAL RELATIONSHIPS**

**1 Analyze proportional relationships and use them to solve real-world and mathematical problems.**

- 1. I can calculate unit rates associated with ratios of fractions.  \_\_\_\_\_

Name \_\_\_\_\_

- 2. I can decide if two ratios form a proportion.  \_\_\_\_\_
- 3. I can find the missing value in a proportion.  \_\_\_\_\_
- 4. I can identify unit rates from tables, diagrams, or graphs.  \_\_\_\_\_
- 5. I can identify unit rates from equations or verbal descriptions.  \_\_\_\_\_
- 6. I can write equations for proportional relationships.  \_\_\_\_\_
- 7. I can interpret points on graphs of proportions.  \_\_\_\_\_

**2 Solve multi-step percent problems.**

- 1. I can use percent to solve simple interest and tax problems.  \_\_\_\_\_
- 2. I can use percent to solve markup and markdown problems.  \_\_\_\_\_
- 3. I can use percent to solve problems about tips, commissions, and fees.  \_\_\_\_\_
- 4. I can solve problems about percent of increase or decrease.  \_\_\_\_\_
- 5. I can calculate percent error.  \_\_\_\_\_



**THE NUMBER SYSTEM**

**1 Apply and extend previous understandings of operations with fractions to add and subtract rational numbers.**

- 1. I can relate sums of rational numbers to movements or situations.  \_\_\_\_\_
- 2. I can relate subtraction of rational numbers to adding the opposite.  \_\_\_\_\_
- 3. I can find distance between rational numbers on a number line.  \_\_\_\_\_
- 4. I can add and subtract integers.  \_\_\_\_\_
- 5. I can add and subtract rational numbers.  \_\_\_\_\_

**2** Apply and extend previous understandings of operations with fractions to multiply and divide rational numbers.

1. I can apply multiplication properties to rational numbers.  \_\_\_\_\_
2. I can interpret products of rational numbers in real situations.  \_\_\_\_\_
3. I can interpret quotients of rational numbers in real situations.  \_\_\_\_\_
4. I can multiply and divide integers.  \_\_\_\_\_
5. I can multiply and divide rational numbers.  \_\_\_\_\_
6. I can write rational numbers as decimals.  \_\_\_\_\_
7. I can compute with rational numbers to solve problems.  \_\_\_\_\_
8. I can solve multi-step problems with rational numbers.  \_\_\_\_\_

**GEOMETRY****1** Draw, construct, and describe geometrical figures and describe the relationships between them.

1. I can compute lengths and areas from a scale drawing.  \_\_\_\_\_
2. I can reproduce scale drawing using a different scale.  \_\_\_\_\_
3. I can draw triangles given measures of sides or angles.  \_\_\_\_\_
4. I can draw geometric shapes with given conditions.  \_\_\_\_\_
5. I can describe two-dimensional figures that result from slicing solids.  \_\_\_\_\_

**2** Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

1. I can recognize relationships between parts of a circle.  \_\_\_\_\_
2. I can apply formulas for circumference and area of circles.  \_\_\_\_\_

3. I can solve equations to find supplementary, complementary, vertical, and adjacent angles.  \_\_\_\_\_
4. I can solve problems involving area and surface area.  \_\_\_\_\_
5. I can solve problems involving volume of rectangular prisms.  \_\_\_\_\_

**STATISTICS AND PROBABILITY****1** Use random sampling to draw inferences about a population.

1. I can identify representative sampling methods.  \_\_\_\_\_
2. I can use a sample to draw inferences about a population.  \_\_\_\_\_
3. I can compare predictions from various samples.  \_\_\_\_\_

**2** Draw informal comparative inferences about two populations.

1. I can visually compare the centers and spreads of distributions on dot plots.  \_\_\_\_\_
2. I can use measures of center and variability to make inferences.  \_\_\_\_\_

**3** Investigate chance processes and develop, use, and evaluate probability models.

1. I can compare probabilities and relate to likelihoods of events.  \_\_\_\_\_
2. I can use relative frequency of outcomes to approximate probability.  \_\_\_\_\_
3. I can calculate simple probabilities based on equally-likely outcomes.  \_\_\_\_\_
4. I can make predictions based on relative frequency, and compare results to predictions.  \_\_\_\_\_
5. I can calculate probabilities of compound events.  \_\_\_\_\_
6. I can create an organized list, table, or tree diagram for a compound event.  \_\_\_\_\_
7. I can design and use simulations of compound events.  \_\_\_\_\_