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Math SOL Review Card

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TEMPERATURE

 **Fahrenheit:**US customary measurement

**Celsius:**metric measurement

TIME AND CALENDAR

1 hour = 60 minutes

1 day = 24 hours

1 week = 7 days

1 month = about 30 days
1 year = 365 ¼ days

1 year = 12 months

**<** = less than

**>** = greater than

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**Hour Hand** – the shorter hand tells the hours

**Minute Hand** – the longer hand tells the minutes

Rounding Rules

1. Find and underline the place you are rounding to

2. Look at the digit to the right and circle the neighbor

3. If the neighbor is 4 or less, then the underlined digit stays the same

4. If the neighbor is 5 or more, then the underlined digit increases by 1

5. All other numbers in front of the underlined digit stay the same. All numbers after the underlined digit turn to zero

**Example:** Round 4,590 to the
 nearest hundred

**4,590 🡪 4,600**

The 9 (neighbor) tells the 5 to add 1 more.

PLACE VALUE

 **\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_** , **\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_**

 Hundred Ten Thousands Hundreds Tens Ones
Thousands Thousands

Standard Form – 902, 583

Word Form – nine hundred two thousand, five hundred eighty-three

Expanded Form – 900,000 + 2,000 + 500 + 80 + 3

Place – The location of the number in the place value chart **(hundreds)**

Value – How much a number is worth in a certain place **(500)**

**Congruent:** Figures that are the same size and the same shape

**Similar:** Figures that are the same shape, but not the same size

**Symmetrical:** Exactly the same on both sides of a dividing line

Three Dimensional Figures

|  |  |
| --- | --- |
| **Sphere**0 faces0 edges0 vertices | **Square Pyramid**5 faces8 edges5 vertices |
| **Cube**6 faces12 edges8 vertices | **Cone**1 face0 edges0 vertices |
| **Rectangular Prism**6 faces12 edges8 vertices | **Cylinder**2 faces0 edges0 vertices  |

 Rays
 Line Segment Angle

 Line

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**Addition & Subtraction Vocabulary**

**Addend** – number that is added to another number

**Commutative Property** – changing the order of the addends does not change the sum

**Difference** – the answer when numbers are subtracted from each other

**Estimate** – find an answer by rounding to the biggest number

**Identity Property –** when the number 0 is added to another number, that number stays the same

**Related Facts** – three numbers that are reordered in 4 number sentences (Fact Families)

**Sum** – the answer when numbers are added to each other



Money

**Strategies for Counting Money:**

1) Start with the coin
or bill with the highest
value and keep
adding coins or bills
until you get to
the smallest value.

2) In large amounts of
change, make groups
of like coins and add
together the groups.

Related Facts:

**4 + 3 = 7 3 + 4 = 7**

**7 – 4 = 3 7 – 3 = 4**

Commutative property

Of addition:

 **6 + 3 = 3 + 6**

Identity property

Of addition :

 **6 + 0 = 6**

ESTIMATION:

 456 🡪 500

 - 201\_ 🡪 - 200\_

 300

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Multiplication Number Lines:
3 x 4 = 12
 3 “jumps of 4” = 12

**INPUT/OUTPUT TABLE**

This table shows
a “multiply by 3”
rule. When you
take the input
number (3) and
apply the rule
(3 x 3), you will get
the output number (9).

 + 1

 56

x 2 .
 112

Related Facts:

**6 x 3 = 18 3 x 6 = 18**

**18 ÷ 6 = 3 18 ÷ 3 = 6**

Commutative property

Of multiplication:

 **4 x 3 = 3 x 4**

Identity property

Of multiplication :

 **9 x 1 = 9**

2 Digit by 1 digit multiplication

1. Multiply the ones place (6 x 2 = 12).

2. Write the 2 in the ones places and regroup the 1.

3. Multiply the tens of your top number to the ones of
 your bottom (2 x 5 = 10) then add the regrouped
 number (10 + 1 = 11).

Key Words for Word Problems

**Addition** – altogether, both, in all, sum, total, together, combined

**Subtraction** – difference, fewer, how many more, how much more, have left, less, remains

**Multiplication** – times, each, product of, each + altogether, each + in all

**Division** – each group has, separated, each + have left, quotient

**Multiplication & Division Vocabulary**

**Commutative Property** – changing the order of the factors does not change the product

**Equivalent** – the same

**Factor**– number that is multiplied with other numbers

**Identity Property –** when the number 1 is multiplied to another number, that number stays the same

**Product** – the answer to a multiplication problem

**Quotient** – the answer to a division problem

**Related Facts** – three numbers that are reordered in 4 number sentences (Fact Families)

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Area and Perimeter

**Perimeter** – distance around a figure (add up all of the sides)

**Area** – number of square units to cover a figure (length x width)

 Area = 15 sq. units Perimeter = 18 units

**MEASUREMENT**

1 foot = 12 inches

3 feet = 1 yard

1 yard = 36 inches

2 cups = 1 pint

2 pints = 1 quart

4 quarts = 1 gallon

16 ounces = 1 pound

1 meter = 100 centimeters

1 kg = 1,000 grams

FRACTIONS

 **Fractions** – a number representing a part of a whole shape or a part of a whole group

**Numerator** – the top of a fraction; tells how many pieces are shaded, chosen, or being talk about

**Denominator** – the bottom of a fraction; tells how many pieces are in the whole shape or group

 **Fraction Number Line:**

 **Improper Fraction** – a fraction where the numerator is greater than the denominator

**Mixed Number** – a whole number and a fraction

**Comparing Fractions:**

 Use the butterfly trick

 **Adding and Subtracting Fractions:**

Add and subtract the number and keep the denominator the same



Graphing:

**Bar Graph:** displays and compares data in different categories

**Line Plot:** shows how often something occurs on a number line using x’s

**Picture Graph:** displays data of different categories using pictures

**Key**: tells you how to read a picture graph

Probability:

 **Certain:** it will *definitely* happen

**Equally Likely (as likely as):** it could happen as much as another

**Impossible:** it *cannot* happen

**Likely:** there is a greater chance

**Unlikely:** there is a lesser chance

Combinations:

When you find all the possible outcomes of two or more objects.

To find all the outcomes, multiply all the choices together.

Patterns and Functions

**Repeating:** 2, 4, 6, 2, 4, 6, 2, 4, 6…

**Growing:** 2, 4, 6, 8, 10, 12, 14…

$\frac{4}{6}$ + $\frac{1}{6}$ = $\frac{5}{6}$ $\frac{4}{6}$ - $\frac{1}{6}$ = $\frac{3}{6}$

$\frac{5}{8}$ > $\frac{1}{4}$

$$\frac{2}{5}$$

$\frac{4}{10}$ are vegetables