Review Sheet Notes

Place Values

Take a number: 3,456,789

Here it is describing its place value:

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	4	5	6	7	8	9

In words, 3,456,789 is: *three million, four hundred fifty-six thousand, seven hundred eighty-nine*.

Understand the digit *4* in 3,**4**56,789 is in the hundred thousands place, and has a value of 400,000.

Estimation

When we round to a specific place value, we look at the value of the digit after. If the digit is 5 or greater we round up. If the digit is 4 or lower we round down. **Rounding up means we increase the specific place value; rounding down means we keep the initial specific place value**.

FOR EXAMPLE:
  i)   Round 65,320 to the nearest ten thousand.

          If we are rounding to the nearest ten thousand, then we round based off of the
          next digit to the right—which in this case is the thousands place.
          The digit of the thousands place is 5. Therefore we round up. So we round up to
          70,000.

  ii)   Round 65,320 to the nearest hundred.

          If we are rounding to the nearest hundred, then we round based off of the next
          digit to the right—which in this case is the tens place.
          The digit in the tens place is 2. Therefore we round down. So we round down to
          65,300.

Multiplying/Dividing by two digit numbers

EXAMPLES:

Multiplication	Division
618 × 72 1236 + 43260 44496	8 r21 33) 285 -264 21

Review Sheet Notes

Order of Operations

1) Do anything in parentheses first
2) Do multiplication or division from left to right
3) Do addition or subtraction from left to right

FOR EXAMPLE:

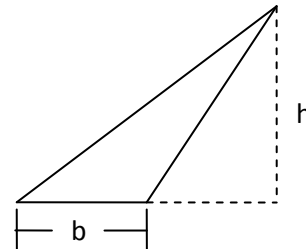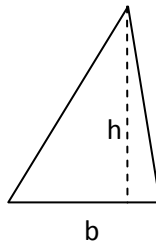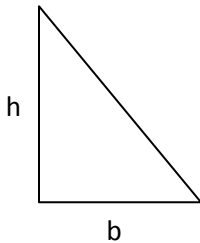$$(9 + 4) - 3 \times 5 + 8 \div 2$$

$13 - 3 \times 5 + 8 \div 2$ Do what's in parentheses first $(9 + 4)$

$13 - 15 + 4$ Do multiplication or division from left to right
3×5 and $8 \div 2$

2   Do addition or subtraction from left to right

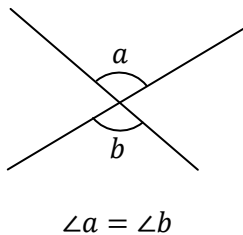## Area of Triangles

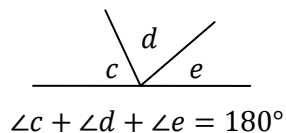Area of a Triangle is one-half of the base times height; $\boldsymbol{Area = \frac{1}{2} \times b \times h}$
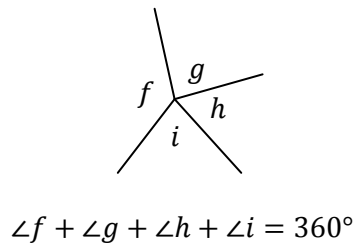
Angles

Vertical Angles are Equal

$\angle a = \angle b$

Angles along a line
add up to 180°

$\angle c + \angle d + \angle e = 180°$

Angles about a point
add up to 360°

$\angle f + \angle g + \angle h + \angle i = 360°$

Right Angles are 90°

$\angle j = 90°$