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$$(x+1)(x+2)(x+3)$$

$$x^3 + 6x^2 + 11x + 6$$

$$(x+1)(x+2)(x+4)$$

$$x^3 + 7x^2 + 14x + 8$$

$$(x+1)(x+2)(x+5)$$

$$x^3 + 8x^2 + 17x + 10$$

$$(x+1)(x+2)(x+6)$$

$$x^3 + 9x^2 + 20x + 12$$

$$(x+6)(x+1)(x+2)$$

$$x^3 + 9x^2 + 20x + 12$$

$$(x+6)(x+1)(x-2)$$

$$x^3 + 5x^2 - 8x - 12$$

$$(x+6)(x+1)(x-3)$$

$$x^3 + 4x^2 - 15x - 18$$

$$(x+6)(x+3)(x-3)$$

$$x^3 + 6x^2 - 9x - 54$$

$$(x+6)(x-3)(x-3)$$

$$x^3 - 27x + 54$$

$$(x+6)(x-4)(x-4)$$

$$x^3 - 2x^2 - 32x + 96$$

$$(x+4)(x-4)(x-4)$$

$$x^3 - 4x^2 - 16x + 64$$

$$(x+4)(x-4)^2$$

$$x^3 - 4x^2 - 16x + 64$$

$$(x+4)^3$$

$$x^3 + 12x^2 + 48x + 64$$

$$(x-4)^3$$

$$x^3 - 12x^2 + 48x - 64$$

$$(3x-4)^3$$

$$27x^3 - 108x + 144x - 64$$

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## As Different As Night and Day

| Word     | Antonym (Opposite) |
|----------|--------------------|
| hot      |                    |
| short    |                    |
| sharp    |                    |
| north    |                    |
| stressed |                    |
| sad      |                    |
| silly    |                    |
| left     |                    |
| cool     |                    |
| bright   |                    |
| west     |                    |
| weak     |                    |
| short    |                    |
| early    |                    |

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$$a + a + a + a = 4a$$

$$b + b + b + b = 4b$$

$$2b + b + b + b = 5b$$

$$b + 2b + b + b = 5b$$

$$b + 2b + b + c = 4b + c$$

$$b + 2b + c + b = 4b + c$$

$$b + 2b + c - b = 2b + c$$

$$b - 3b + c + 4b = 2b + c$$

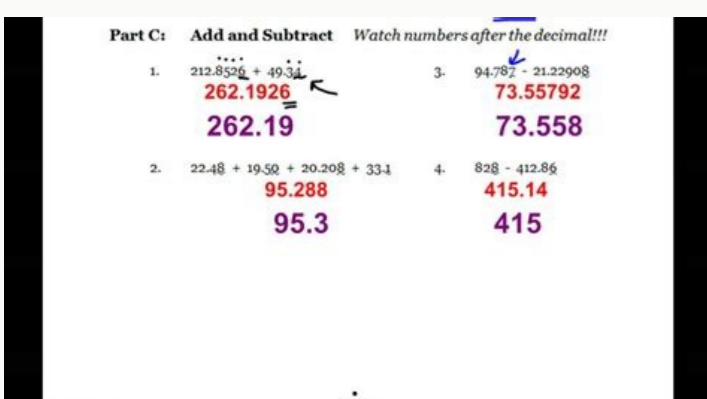
$$b + 2bc + c + b = 2b + 2bc + c$$

$$\frac{b + 4bc + 2c + b}{2} = b + 2bc + c$$

### Significant Digits and Scientific Notation Handout

- How many significant digits are there in each of the following?  
a) 146.32 cm      b) 700 m      c) 700. m      d) 700.5 m  
e) 0.00346 kg      f) 1.00346 kg      g)  $3.46 \times 10^{-3}$  kg      h) 1.38 cm  
i)  $3.0 \times 10^8$  m/s      j) 2640 m/s      k) 2.640 m/s      l) 28.0 cm
- Round off each of the following to two significant digits:  
a) 5.934      b) 4.683      c) 76.9      d) 0.34499  
e) 0.0181      f) 34611
- Express the following in scientific notation:  
a) 954      b) 321.0      c) 6784      d) 6400  
e) 6400.      f) 0.0064      g) 0.800      h) 0.00015  
i) 300 000 000
- Express the following numbers in decimal notation:  
a)  $3.2 \times 10^5$       b)  $3.2 \times 10^{-5}$       c)  $3.2 \times 10^0$       d)  $8.7912 \times 10^2$   
e)  $4.96 \times 10^{-4}$       f)  $3 \times 10^8$
- Calculate each of the following. Express each of your answers in the correct number of significant digits:  
a)  $21.36 + 2.8 + 35.348 + 2.9164$       b)  $147.845 - 121.1$   
c)  $54.612 + 3.0$       d) The area of a rectangle 35.66 cm long and 9.1 cm wide.
- Calculate the value of each of the following, expressing your answers in scientific notation to the correct number of significant digits.  
a)  $(4.0 \times 10^5)(2.0 \times 10^3)$       b)  $\frac{4.0 \times 10^2}{2.0 \times 10^3}$   
c)  $(2.0^3)^2 \times 10^2$       d)  $(5.0 \times 4.0)^2 \times 10^4$   
e)  $\frac{27 \times 10^1}{3.0 \times 10^{-4}}$
- Three steel spheres have masses of 12.62 g, 13.0 g and 12.882 g. Find the average mass of the steel spheres.
- A car travels 250.0 m in 1.00 minute. Calculate its average speed in m/s and km/h.

Significant figures practice problems worksheet with answers. Significant figures practice answer key. Significant figures worksheet answer key.



Equip future architects, aeronauts, coast guards, graphic designers with this meticulously designed assemblage of printable area worksheets to figure out the area of irregular figures, area of 2D shapes like squares, rectangles, triangles, parallelograms, trapezoids, quadrilaterals, rhombus, circles, polygons, kites, mixed and compound shapes using appropriate area formulas. Sample our free worksheets that are exclusively drafted for grade 2 through grade 8 children. Counting Squares Worksheets The children in the 2nd grade and 3rd grade enhance practice with this interesting collection of pdf worksheets on finding the area by counting unit squares. Included here are area exercises to count the squares in the irregular figures and rectangular shapes. Area of Squares Worksheets Give learning a head start with these finding the area of a square worksheets. 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How many significant figures are in a substance with a mass of 0.0504 grams? How many significant figures are in a substance with a mass of 0.07080 grams? How many significant figures in 504? Hint: All non-zero digits are significant. Zeros between digits are significant. How many significant figures are there in 5040 toys? Zeros at the end of a counted quantity are not significant. How many significant figures are there in a substance with a mass of 504.30 grams? Hint: Zeros at the end of a number that represents a measured quantity is a significant digit. Zeros to the right of a decimal point show how accurate a measurement is taken. How many significant figures in 560,890 birds? Add the following and answer with the correct number of significant figures:  $13.4 + 2.42 =$  . 15.82 (4 significant figures) 15.8 (3 significant figures) Add the following and answer with the correct number of significant figures:  $3.01 + 2.32 + 5.1 =$  . 10.4 (3 significant figures) 10.43 (4 significant figures) 10. (2 significant figures) Answer with the correct number of significant figures.  $13.023 \times 123.1 =$  . 1603.1313 (8 significant figures) 1603.1 (5 significant figures) 1603 (4 significant figures) 1603.13 (6 significant figures) Algorithm Circle Addition Back to top

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