Name _____ Date _____

Scientific Notation Addition and Subtraction - Independent Practice Worksheet

Complete all the problems.

1. $9 \times 10^3 + 2.3 \times 10^4$

2. $15 \times 10^2 + 5.2 \times 10^5$

3. $10 \times 10^4 + 2.8 \times 10^6$

4. $7 \times 10^3 + 8.6 \times 10^4$

5. $3 \times 10^4 + 14.5 \times 10^5$

6. $8 \times 10^4 - 2.7 \times 10^2$

7. $5 \times 10^3 - 8.9 \times 10^4$

8. $7 \times 10^3 - 8.20 \times 10^2$

9. $9 \times 10^2 - 5.54 \times 10^4$

10. $10 \times 10^2 - 7.79 \times 10^3$

Name _____ Date _____

Scientific Notation Addition and Subtraction - Matching Worksheet

Find the sums and differences. Write the letter of the answer that matches the problem.

_____ 1. $11 \times 10^4 + 5.8 \times 10^3$

_____ 2. $5 \times 10^5 + 11.10 \times 10^5$

_____ 3. $3 \times 10^2 + 9.15 \times 10^3$

_____ 4. $11 \times 10^5 + 7.5 \times 10^4$

_____ 5. $21 \times 10^4 + 17.5 \times 10^3$

_____ 6. $11 \times 10^2 - 4.71 \times 10^3$

_____ 7. $13 \times 10^4 - 9.95 \times 10^2$

_____ 8. $158 \times 10^2 - 10.85 \times 10^5$

_____ 9. $0.075 \times 10^8 - 12.15 \times 10^5$

_____ 10. $125 \times 10^6 - 25 \times 10^6$

a. 0.06285×10^8

b. -3.61×10^3

c. 16.10×10^5

d. -10.692×10^5

e. 117.5×10^4

f. 11.58×10^4

g. 22.75×10^3

h. 12.9005×10^4

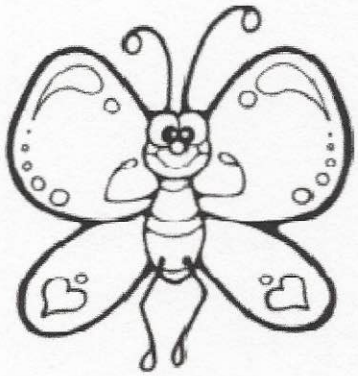
i. 100

j. 9.45×10^3

Name _____ Date _____

Scientific Notation Multiplication and Division - Independent Practice Worksheet

Complete all the problems.



1. $(9.32 \times 10^3)\ (3.32 \times 10^2)$

2. $(7.22 \times 10^1)\ (4.45 \times 10^3)$

3. $(6.82 \times 10^5)\ (3.77 \times 10^2)$

4. $(2.41 \times 10^4)\ (4.12 \times 10^2)$

5. $(1.09 \times 10^2)\ (2.79 \times 10^1)$

6. $(5.26 \times 10^5) \div (11.1 \times 10^3)$

7. $(5.75 \times 10^4) \div (4.7 \times 10^2)$

8. $(3.38 \times 10^6) \div (7.8 \times 10^4)$

9. $(17.04 \times 10^5) \div (19.4 \times 10^2)$

10. $(9.75 \times 10^6) \div (1.9 \times 10^2)$

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Name _____ Date _____

Scientific Notation Multiplication and Division - Matching Worksheet

Find the quotients and products. Write the letter of the answer that matches the problem.

_____ 1. $(3.29 \times 10^3)(2.33 \times 10^2)$

_____ 2. $(2.27 \times 10^1)(5.44 \times 10^3)$

_____ 3. $(8.26 \times 10^5)(7.73 \times 10^2)$

_____ 4. $(4.12 \times 10^4)(2.14 \times 10^2)$

_____ 5. $(9.01 \times 10^2)(9.72 \times 10^1)$

_____ 6. $(6.25 \times 10^5) \div (1.11 \times 10^3)$

_____ 7. $(7.55 \times 10^5) \div (7.4 \times 10^2)$

_____ 8. $(8.33 \times 10^6) \div (8.7 \times 10^4)$

_____ 9. $(74.01 \times 10^5) \div (4.91 \times 10^2)$

_____ 10. $(7.95 \times 10^6) \div (9.1 \times 10^2)$

a. 1.51×10^4

b. 5.63×10^2

c. 1.23×10^5

d. 0.96×10^2

e. 8.82×10^6

f. 7.67×10^5

g. 8.76×10^4

h. 1.02×10^3

i. 0.87×10^4

j. 6.38×10^8

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Name _____ Date _____

Scientific Notation Word Problems - Independent Practice Worksheet

Complete all the problems.

1) The bedroom of our house is 1,200 cubic meters. We know that there are 3.4×10^9 particles of dust per cubic meter. Write how many particles of dust are present in the bedroom of our house.

2) Find out the weight of 6 billion dust particles, if a dust particle has a mass of 7.53×10^{-10} g.

3) Last month, my friend bought a computer. If it can perform 4.66×10^8 calculations per second, what is the performance of the computer in one minute?

4) In Australia, the people use approximately 2,240,000,000 pounds of bread in a year. How can we write this number in scientific notation?

5) If a satellite travels 62,000,000 miles from Earth, how can we write it in scientific notation?

6) 0.000065 is the wave length of yellow light. Can you express the measurement using scientific notation?

7) If the speed of light is 3×10^8 meters/second, how many seconds does it take light to reach the Earth, if the sun is 1.5×10^{11} meters from Earth? Write the answer in scientific notation.

8) Through research, scientists found that the body of a 200 lb person consists of 3.2×10^{-5} lbs of zinc. In the bodies of 1,500 such people, how much zinc is present?

9) If we suppose that the volume of Lake Rason is approximately 2.56×10^5 km^3 and Lake Rason is 20 times the volume of Lake Rushy, write the volume of Lake Rushy (approximately).

10) Scientists discovered that the size of the Antarctic Ocean is 20,330,000 Km^2. How big is the Arctic Ocean, if the Arctic Ocean is ¾ of the size of the Antarctic Ocean?