$\frac{5}{16}$ Practice: Evaluate $\frac{16^2+32^2}{64^2}$

48.8% 1-1 All the edges of a cube are decreased by 20%. By what percent does the volume decrease?

16 1-2 What is the least positive integer with exactly 5 unique factors.

4 1-3 Find x + y: $\frac{x}{6}+\frac{2y}{12}=\frac{8}{12}$

729 1-4 A cubic storage box is made with ½ in thick wood. If the outside dimensions are 10in.by10in by10in, what is the volume inside the box?

-1804 1-5 Find: (25)(902) – (902)(27)

$\pi:3$ 2-1 A can of tennis balls can fit 3 balls perfectly inside. Find the ratio of the circumference of the base of the can to the height of the can.

5 2-2 If 2 + A = B and 3 + C = A find: B – C

42 2-3 Ms. Bonnie is ¾ as old as she will be in 14 years. How old is she now?

24 2-4 If a cube is painted on all sides and then cut into 64 congruent smaller cubes. How many cubes will have paint on only 2 sides?

60000
$6.0x10^4$ 2-5 Find: $\sqrt{3.6\times10^9}$

-1 3-1 Simplify: $\frac{n-12}{12-n}$

49 3-2 A square and a triangle have equal perimeters. The lengths of the three sides of the triangle are 7.2 cm, 9.7 cm, and 11.1 cm. Find the area of the square.

1.04041 3-3 In Chemistry the term mole refers to the amount $6.23x10^{23}$ atoms of a substance. If the mass of a single Hydrogen atom is $1.67x10^{-24}$, find the mass of 1 mole of hydrogen atoms.

12345654321 3-4 Find: $111{,}111^2$

1701 3-5 10% of the sum of two numbers is 9. 25% of the difference of the two numbers is also 9. Find the product of the two numbers.

7260 4-1 Find the sum of the integers from 1 to 120 inclusive.

$X^2/144$ 4-2 If a square has a perimeter of $\frac{x}{3}$ units, find the area of the square.

14 4-3 The four corners of a square are all folded to the center point of the square creating a smaller square. If the original square had an area of 28 $units^2$, what is the area of the smaller square?

2r+3 4-4 Find the mean of: r + 5, 2r – 4, and 3r + 8

120 4-5 Evaluate $\frac{10!+11!}{9!}$

$4\sqrt{10}$ E 1 Find the distance between the x-intercept and y-intercept of the line y = 3x + 12.

$20+10\sqrt{2}$ E 2 The area of an isosceles right triangle is 50 $units^2$. Find its perimeter.