Eighth Grade Assessment Test

Teacher's Version

Notes for the teacher:

- This test should be given at the end of eighth grade, or at the start of ninth grade.
- This test does not represent the typical level of difficulty of math problems for eighth grade. It should be easy for the students.
- The student's version of the test should leave plenty of room for student work.

Calculators ARE NOT permitted on #1-31

- 1) $\frac{5}{11} + \frac{2}{11}$
- 5) $\frac{7}{8} \frac{1}{3}$
- 2) $\frac{5}{11} \cdot \frac{2}{11}$
- 6) $\frac{2}{5} \div \frac{3}{4}$
- 3) $5\frac{3}{5} + 1\frac{6}{7}$
- 7) $(7\frac{1}{2})(\frac{4}{5})$
- 4) $(2\frac{2}{3})^2$
- 8) Reduce $\frac{72}{168}$
- 9) 84.3 + 9.84
- 10) 84.3 9.84
- 11) $\sqrt{64000000}$
- 12) Convert $\frac{53}{1000}$ to a decimal.
- 13) Convert 0.08 to a reduced fraction.
- 14) $20 \div 0.05$
- $(0.02)^3$
- 16) Convert $\frac{3}{5}$ to a percent:
- 17) Convert 0.032 to a percent:
- 18) What is 25% of 18?
- 19) What is 5% of 14?
- 20) 70 is what % of 350?
- 21) What is 240 decreased by 10%?
- 22) 48 inches = _____ feet
- 23) $26 \text{ m} = \underline{\qquad} \text{ cm}$
- 24) $370 g = ___ kg$

Simplify each expression.

- 25) -9 + 7
- 26) -6 12
- 27) -14 + 5 + 10
- 28) (-5)(-6)
- 29) $\frac{-32}{-4}$

Solve for X.

- 30) -2X 3 = 5X + 25
- 31) 10-4(x-1)=5(2-5x)

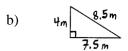
Calculators ARE permitted on #32-40

1 inch ≈ 2.54 cm 1 kg ≈ 2.2 pounds 1 m ≈ 3.28 feet 1 mile = 5280 feet

If helpful, you may use the above conversion facts for the following problems.

- 32) 17 inches ≈ ____ cm
- 33) 300 pounds \approx _____ kg
- 34) 17 km ≈ _____ feet
- 35) A plane flew 2100 miles in 5 hours. What was its average speed?
- Jill's car has a fuel efficiency of 47mpg (miles per gallon) on the highway. At that rate, how much gasoline does it take to go 800 miles?
- 37) Given that the ratio of dogs to cats in a certain town is 2 to 7. How many cats are there if there are 280 dogs?
- 38) The ratio of a rectangle's base to its height is 1.6:1. Find the height if the base is 32cm.
- 39) Calculate the area.







- 40) Calculate the volume of each solid.
 - a) A box.



b) A cylinder.

