

6th Grade Assignment – Week #15

Individual Work:

- See how much you can do on Sheet #15 in the workbook. Be sure to save #34-37 for group work.

Group Assignments:

For Tuesday:

- Work together on problems #34-37 on Sheet #15.
- If there is extra time, then begin Thursday's group assignment.

For Thursday:

- *Factor Puzzles!*
Here is a list of numbers: 23, 41, 51, 83, 87, 95, 117, 119, 127, 583.
 - 1) Which of the above numbers is divisible by 3?
 - 2) One of the above numbers is divisible by 7. Which is it?
 - 3) One of the above numbers is divisible by 11. Which is it?
 - 4) Which of the numbers in the list are prime? (Hint: there are four.)
 - 5) (If you have time...) For each of the above numbers, write down all of the factors. To save time, each member of the group should work on different numbers. Which of the numbers in the list has the most factors?
- *Metric.* Fill in the blank with the correct number.
 - 6) 88 m = _____ cm
 - 7) 88 m = _____ km
 - 8) 640 cm = _____ m
 - 9) 640 cm = _____ mm
 - 10) 8.6 l = _____ ml
 - 11) 8.6 ml = _____ l
 - 12) 7 g = _____ mg
 - 13) 47 mg = _____ g
 - 14) 3 kg = _____ mg

6th Grade Math – Sheet #15

Memorized facts.

- 1) $13 \cdot 2$
- 2) $15 \cdot 3$
- 3) $16 \cdot 4$
- 4) 18^2
- 5) Convert $\frac{1}{4}$
- 6) Convert $\frac{3}{5}$
- 7) Convert 0.7
- 8) Convert 0.125
- 9) 4^3
- 10) 5^4
- 11) 2^5

Do it in your head.

- 12) $1100 \cdot 70$
- 13) $0.0007 \cdot 100$
- 14) $91 \cdot 11$
- 15) $600 \div 4$
- 16) $137 \div 999$
- 17) $210 \div 240$
- 18) $800 \div 5$
- 19) $120 \div 5$
- 20) $0.7 \div 5$
- 21) 600^2
- 22) $(\frac{2}{3})^3$
- 23) $\sqrt{0.09}$

Fractions.

- 24) $\frac{7}{8} + \frac{7}{12}$
- 25) $\frac{27}{35} + \frac{19}{27}$
- 26) $\frac{27}{35} \cdot \frac{19}{27}$
- 27) $4\frac{3}{8} \div 1\frac{5}{16}$
- 28) $\frac{4\frac{3}{8}}{1\frac{5}{16}}$
- 29) $\frac{1\frac{5}{16}}{4\frac{3}{8}}$

Division.

- 30) Leave your answer as an exact decimal.
 $856 \div 2.7$

Formulas.

- 31) On the previous worksheet, review the pay problems about John who works in a bike shop. Use the same formula to do the following problems:
 - a) How much pay does John earn if he works for 40 hours and sells 11 bikes?
 - b) John works 22 hours per week. How much pay does he earn if he works for 4 weeks and sells 7 bikes each week?

