6th Grade Assignment – Week #10

Individual Work: See how much you can do on Sheet #10 in the workbook,
but save #21 and #35-40 for your group work.

Group Assignment: (for either Tuesday and/or Thursday)

- **Discover the new math trick**
  Do the problems on Sheet #10, problem #21, and try to discover the new trick.

- **Discover the law**
  Do each of the below problems, and discover the law shown by these problems

Convert to a decimal: Convert to a fraction:

1. $\frac{3}{4}$ 10. 0.4

2. $\frac{3}{40}$ 11. 0.004

3. $\frac{3}{400}$ 12. 0.3

4. $\frac{3}{5}$ 13. 0.03

5. $\frac{3}{50}$ 14. 0.35

6. $\frac{3}{5000}$ 15. 0.035

7. $\frac{9}{25}$ 16. 0.125

8. $\frac{9}{250}$ 17. 0.000125

9. $\frac{9}{250000}$

- **Measurement Practice**
  Help each other out with Sheet #10, Problems #35-40.

- **Puzzle**
  Fill in the four boxes so that the four equations are true.

$$\Box + \Box = 13$$
$$+ \quad +$$
$$\Box - \Box = 6$$
$$\| \quad \|$$
$$14 \quad 10$$

6th Grade Math − **Sheet #10**

Do it in your head.

1) $18 \cdot 2$

2) $914 - 888$

3) $16 \cdot 3$

4) $(1.2)^2$

5) $\frac{5}{18} \div \frac{5}{9}$

6) $\dfrac{\frac{5}{18}}{\frac{5}{9}}$

7) $\sqrt{90000}$

8) $16 \cdot 4$

9) 18^2

10) $\frac{11}{12} \cdot \frac{36}{11}$

11) $3.15 \cdot 4$

12) $14 \cdot 2$

13) $\sqrt{1.21}$

14) $16 \cdot 2$

15) $72000 \div 60$

16) $109 \cdot 105$

17) $\frac{9}{10} - \frac{1}{3}$

18) $14 \cdot 3$

19) 16^2

Convert to decimals.

20) Each problem either has a trick or should be memorized.

a) $\frac{2}{9}$

b) $\frac{1}{20}$

c) $\frac{9}{20}$

d) $\frac{2}{3}$

e) $\frac{3}{5}$

f) $\frac{7}{10}$

g) $\frac{59}{100}$

h) $\frac{1}{8}$

i) $\frac{5}{11}$

j) $\frac{5}{9}$

k) $\frac{68}{99}$

l) $\frac{713}{999}$

m) $\frac{9}{11}$

n) $\frac{5}{6}$

o) $\frac{5}{8}$

p) $\frac{13}{20}$

21) Discover the trick.

a) $7 \cdot 99$

b) $4 \cdot 999$

c) $5 \cdot 9999$

d) $3 \cdot 99999$

Estimate.
Round the numbers in the problem to one or two significant digits, then estimate the answer.

22) $685,036 + 725,672$

23) $2276 \cdot 807$

24) $81763 - 69627$

25) $48753 \div 716$

Unit Cost.

26) Five light bulbs cost $3.40. How much do eight light bulbs cost?

27) Five light bulbs cost $2.45. How much do 20 light bulbs cost?

Fractions.

28) $73\frac{3}{11} - 68\frac{1}{2}$

29) $\frac{5}{9} + \frac{7}{36}$

30) $\dfrac{5\frac{5}{8}}{6}$

31) $3 \div 4\frac{3}{8}$

32) $4\frac{3}{8} \cdot 5$

Divisibility.
State whether each of the following numbers is evenly divisible by 2, 3, 4, 5, 9, or 10.

33) 81,945

34) 9,472,152

Measurement.

35) 5 feet is how many inches?

36) 16 pounds is how many ounces?

37) 96 fl. oz. is how many cups?

38) 11 cups is how many pints?

39) 3½ tons is how many pounds?

40) 1.7 miles is how many feet?

41) *Short Division.* Leave your answer as a mixed number.

$94034 \div 6$

42) Convert the following improper fraction to *both* a mixed number and an exact decimal.

$\dfrac{697}{24}$

43) *New Flashcards!* Look at all the *Powers* problems given at the end of the previous work-sheet. Make a new flashcard for each one. (Those marked with a star are optional.)