Quiz ~ Review #2 Material

Name_____ Hour_____

Show ALL work.

Is the first number divisible by the second? Explain.

1) 3,152 by 2

_____

2)   507 by 5

_____

3) 14,003 by 10

_____

4) 9,736 by 4

_____

5) 40, 012 by 8

_____

6) Allison said that the number of her family's hotel room was divisible by 2, 3, 4, and 5, but it is not divisible by 8 or 9. Could 3060 be the number of their hotel room? Explain all numbers and if they are divisible.

2:

3:

4:

5:

8:

9:

7) Use your knowledge of divisibility rules to write a divisibility rule for 15. Explain in complete sentences how your came up with your rule.

8) Brandon goes to the health club every 4 days. His sister Gabby goes there every 6 days. Brandon and Gabby both went to the health club today. When will they both go there on the same day again? Show your proof.

8. _____

List all the factors of each number.

9) 48

_____

10) 54

_____

Change each decimal to a percent:

11)   0.42   11. _____

12)   12.3   12. _____

13)   0.054   13. _____

Change each percent to a decimal:

14) 78%   14. _____

15)   9%   15. _____

16) 145%   16. _____

Change each fraction to a percent:

17) $\frac{3}{8}$ 17. _____

18) $\frac{23}{25}$ 18. _____

Use *multiples* to write two fractions equivalent to each of the given fractions.

19) $\frac{3}{5}$ _____ _____

20) $\frac{2}{7}$ _____ _____

Use *factors* to write one fraction equivalent to each of the given fractions.

21) $\frac{20}{24}$ 21._____

22) $\frac{50}{60}$ 22._____

Write each fraction is simplest form.

23) $\frac{18}{30}$ 23._____

24) $\frac{24}{42}$ 24._____

25) $\frac{36}{54}$ 25._____

26) There are 28 students in Lily's class. Of these, 20 students have a pet. What fraction of the students have a pet?

26)_____

Write each mixed number as an improper fraction.

27) $4\frac{3}{5}$ 27) _____

28) $6\frac{1}{4}$ 28) _____

29) $8\frac{2}{3}$ 29)_____

Write each improper fraction as a mixed number.

29) $\frac{35}{6}$ _____   30) $\frac{22}{3}$ _____   31) $\frac{50}{9}$ _____

Write each decimal as a fraction or mixed number.

32) 4.105 _____ 33) 0.48 _____ 34) 2.6 _____