MATH 2: Additional handout

Review sheet: 7/26/2017

Answer in your own words:

1. How do you multiply two fractions?

2. How do you multiply a fraction to an integer?

3. How do you add two fractions?

4. How do you deal with y^{-3} in $\dfrac{xy^{-3}}{z}$?

5. How do you deal with y^{-3} in $\dfrac{x}{zy^{-3}}$?

6. How do you simplify $(x^5y^{10})^{-\frac{1}{2}}$

7. What is the general strategy to simplify a square root of an integer?

8. Simplify $\sqrt{36000}$.

9. Set up an equation to solve "40% of what number is 20?"

10. Set up an equation to solve "what is 40% of 20?"

11. Set up an equation to solve "If the original price is 40, what is the price after 20% discount?"

12. Set up an equation to solve "if the price after 20% discount is 40, what is the original price?"

Simplify the followings:

1. $\frac{2}{3} \cdot \frac{6}{16} \cdot \frac{8}{9} \cdot 6$

2. $\frac{\frac{1}{3} + \frac{1}{2}}{\frac{1}{3} - \frac{1}{2}}$

3. $\frac{2^4 3^{-2}}{2^5 3^{-3}}$

4. $\left(\frac{4}{25}\right)^{-\frac{3}{2}}$

5. After 10% discount, the price is 180? What is the original price?

6. With 10% discount, you pay 180 less than the original price. What is the original price? What is the amount you pay?