

Practice for ML 1-3: Fractions, Decimals, Equations and Inequalities (Math 7 Plus - Unit 4)

• Simplify

1) $-4\frac{2}{5} - 2\frac{1}{2}$

2) $-12.56 + 0.656$

3) $9 - 13.78$

4) $2\frac{1}{8} \div 1\frac{1}{3}$

5) $-6\frac{1}{2} \cdot -3\frac{3}{13}$

6) $-14.5 \div 0.5$

7) $-4.5 \times -0.12 \div 5.4$

8) $\left(-\frac{1}{2}\right)^3$

9) If you did $\frac{1}{2}$ of your project last week and this week you did $\frac{2}{5}$, what fraction of the project do you have left? If the project will be 25 pages, how many pages do you have left to complete?

Fraction left: _____

Pages left: _____

10) If $\frac{2}{3}$ of the class was spent on the quiz, and there is 60 minutes in the class, how many minutes are left after the quiz?

Minutes left: _____

11) The coat was \$34.45 with tax. If you want to get 2 coats how much will it cost? If you have \$90, how much change will you get back?

Cost: _____

Change: _____

12) You are making scarves for your 3 best friends as gifts. If each scarf takes $34\frac{1}{2}$ feet of yarn how many feet of yarn will you need to complete the scarves?

Yarn needed: _____

- Solve. Graph the inequalities.

13) $-5.2m + (-3) = -44.6$

14) $-\frac{3}{4}k + 6 = -4\frac{3}{4}$

15) $\frac{1}{3}(p - \frac{3}{4}) = -\frac{2}{3}$

16) $8.7 < -3y + 12.6$

17) $\frac{3}{4}d + (-6) > -2\frac{1}{2}$

18) $-\frac{4}{5}d + 10 > -7\frac{3}{5}$

Write and solve an equation or inequality to model the problems below.

19) You are paid \$12.50 per hour. Last week Millie received a \$55.50 bonus and her pay check was for \$243. How many hours did Millie work last week?

20) Your cell company charges \$28 per month for service and \$.08 per text. If your last month's bill was for \$85.60, how many texts did you send?

21) Eight months have passed and you realize you have spent over \$204. On average, how much money are you spending each month?