Name_____ Date_____

Solving Proportions and Review

Solve the proportion. Check your solution.

1) $\frac{2}{3} = \frac{4}{x}$

2) $\frac{13}{6} = \frac{52}{z}$

3) $\frac{3}{y} = \frac{15}{35}$

4) $\frac{10}{45} = \frac{v}{27}$

5) $\frac{5m}{6} = \frac{10}{12}$

6) $\frac{3k}{27} = \frac{2}{3}$

7) $\frac{6}{t+4} = \frac{42}{77}$

8) $\frac{8}{12} = \frac{r}{r+1}$

9) $\frac{n}{n-12}=\frac{9}{5}$

10) $\frac{18}{d+13}=\frac{6}{d-13}$

Describe AND correct the error in solving the proportion.

11)

$$\frac{4}{3}=\frac{16}{x}$$

$$4 \cdot 16 = 4 \cdot x$$

$$64 = 4x$$

$$16 = x$$

12)

$$\frac{18}{14}=\frac{b+2}{b}$$

$$18b = 14b + 2$$

$$4b = 2$$

$$b = 0.5$$

Solve the following.

13) $4-c=-3$

14) $-24=x-18$

15) $\frac{3}{4}s = 12$

16) $4r = -36$

17) $2d - 15 = 3$

18) $4 = \frac{m}{4} - 8$

19) $-3(n + 6) + 10 = -8$

20) $3(q - 2) = -6 + 3q$

21) $3(k + 5) = -2(3k - 6)$

22) $8m + 2 + 4m = 2(6m + 2)$