

20F

1) $X = 8$

2) $R = 7$

3) $Y = 56$

4) $B = 7$

5) $G = 10$

6) $.625$

7) $.08$

8) $\frac{7}{25}$

9) $\frac{24}{25}$

10) $-2X - X + 12 = X - |-3 \cdot 4|$

$-3X + 12 = X - 12$

$12 + 12 = X + 3X$

$24 = 4X$

$6 = X$

11) $-2(6) - (6) + 12 = (6) - |-3 \cdot 4|$

$-12 - 6 + 12 = 6 - |-12|$

$-6 = 6 - 12$

$-6 = -6$

12) $-(6+7)^2 + (10+5)^2 = 5M+1$

$-(13)^2 + 15^2 = 5M+1$

$-169 + 225 = 5M+1$

$56 = 5M+1$

$55 = 5M$

$11 = M$

13) $-(6+7)^2 + (10+5)^2 = 5(11)+1$

$-(13)^2 + (15)^2 = 55+1$

$-169 + 225 = 56$

$56 = 56$

14) 11.72 in.

15) $10\frac{3}{6} - 5\frac{1}{6} = 5\frac{2}{6} = 5\frac{1}{3} \text{ yrs.}$

16) $\frac{3}{8} \times \frac{1}{2} = \frac{3}{16}$

17) 32° F

18) $\$1,200$

19) $\$1,200 \div 5 = \$240;$

$\$240 \times 3 = \720

20) $2A + 3 - 15 = A$

$2A - 12 = A$

$2A - A = 12$

$A = 12$

21A

1) done

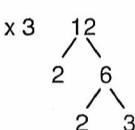
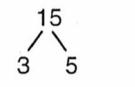
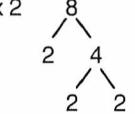
2) 3, 6, 9, 12, 15, 18, 21, 24, 27, 305, 10, 15, 20, 25, 30, 35, 40, 45, 50

LCM = 15

3) 4, 8, 12, 16, 20, 24, 28, 32, 36, 405, 10, 15, 20, 25, 30, 35, 40, 45, 50

LCM = 20

4) done

5) $12 = 2 \times 2 \times 3$ 6) $15 = 3 \times 5$ 7) $8 = 2 \times 2 \times 2$ 

8) done

9) $2 \times 2 \times 3 = 12; 3 \times 5 = 15$ LCM = $2 \times 2 \times 3 \times 5 = 60$ 10) $2 \times 2 \times 2 = 8; 2 \times 3 \times 3 = 18$ LCM = $2 \times 2 \times 2 \times 3 \times 3 = 72$ 11) $2 \times 2 \times 2 = 8; 3 \times 5 = 15$ LCM = $2 \times 2 \times 2 \times 3 \times 5 = 120$ 12) $1 \times 5 = 5; 2 \times 2 \times 2 = 8$ LCM = $2 \times 2 \times 2 \times 5 = 40$ 13) $2 \times 2 = 4; 3 \times 3 = 9$ LCM = $2 \times 2 \times 3 \times 3 = 36$ 14) $1 \times 3 = 3; 2 \times 2 = 4$ LCM = $2 \times 2 \times 3 = 12$ 15) $8 = 2 \times 2 \times 2; 12 = 2 \times 2 \times 3$ LCM = $2 \times 2 \times 2 \times 3 = 24$

21B

1) 4, 8, 12, 16, 20, 24, 28, 32, 36, 408, 16, 24, 32, 40, 48, 56, 64, 72, 80

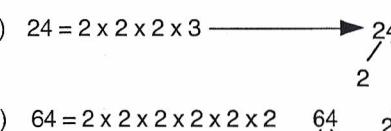
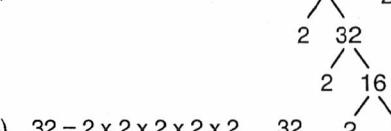
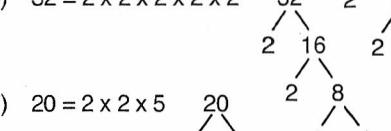
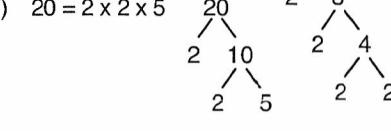
LCM = 8

2) 6, 12, 18, 24, 30, 36, 42, 48, 54, 6010, 20, 30, 40, 50, 60, 70, 80, 90, 100

LCM = 30

3) 4, 8, 12, 16, 20, 24, 28, 32, 36, 405, 10, 15, 20, 25, 30, 35, 40, 45, 50

LCM = 20

4) $24 = 2 \times 2 \times 2 \times 3$ 5) $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$ 6) $32 = 2 \times 2 \times 2 \times 2 \times 2$ 7) $20 = 2 \times 2 \times 5$ 8) $2 \times 2 \times 5 = 20; 2 \times 2 \times 2 \times 3 = 24$ LCM = $2 \times 2 \times 2 \times 3 \times 5 = 120$ 9) $2 \times 2 \times 5 = 20; 2 \times 2 \times 2 \times 2 \times 2 = 32$ LCM = $2 \times 2 \times 2 \times 2 \times 2 \times 5 = 160$ 10) $2 \times 2 \times 2 \times 3 = 24; 2 \times 2 \times 2 \times 2 \times 2 = 64$ LCM = $2 \times 2 \times 2 \times 2 \times 2 \times 3 = 192$ 11) $2 \times 2 \times 2 \times 2 \times 2 = 32; 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$ LCM = $2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$ 12) $2 \times 3 = 6; 2 \times 2 \times 3 = 12$ LCM = $2 \times 2 \times 3 = 12$ 13) $1 \times 5 = 5; 1 \times 7 = 7; \text{LCM} = 5 \times 7 = 35$ 14) $3 \times 3 = 9; 2 \times 2 \times 3 = 12$ LCM = $2 \times 2 \times 3 \times 3 = 36$ 15) $3 \times 1 = 3; 3 \times 5 = 15; \text{LCM} = 3 \times 5 = 15$

