Lesson Practice 3A

1. $(+5) \times (-6) = -30$
2. $(-6) \times (-7) = +42$
3. $(-9) \times (-10) = +90$
4. $(-10) \times (+12) = -120$
5. $(-5) \times (-8) = +40$
6. $(-16) \times (-11) = +176$
7. $(+4) \times (-15) = -60$
8. $(-18) \times (-6) = +108$
9. $(-16) \times (+12) = -192$
10. $(-17) \times (+3) = -51$
11. $(-18) \times (-4) = +72$
12. $(-24) \times (-5) = +120$

13. $(-11)\times(+16) = -176$
14. $(+3)\times(-24) = -72$
15. $(+8)\times(-12) = -96$
16. $(-10)\times(-16) = +160$
17. $(-3)\times(+6) = -18$ games
18. $(\$-.25)\times(+10) = \$-2.50$
19. $(\$-30)\times(+12) = \$-360$
20. $(+10)\times(+12) = +120\ m^2$

Lesson Practice 3B

1. $(+36)\times(-4) = -144$
2. $(-4)\times(-19) = +76$
3. $(-6)\times(-8) = +48$
4. $(-24)\times(-6) = +144$
5. $(-25)\times(-3) = +75$
6. $(-10)\times(+19) = -190$
7. $(-8)\times(+6) = -48$
8. $(-42)\times(+16) = -672$
9. $(-50)\times(-19) = +950$
10. $(+25)\times(-6) = -150$
11. $(+23)\times(-13) = -299$
12. $(-46)\times(-8) = +368$
13. $(-16)\times(-24) = +384$
14. $(-8)\times(-16) = +128$
15. $(-42)\times(-15) = +630$
16. $(-17)\times(+48) = -816$
17. $(\$-3)\times(+2) = \$-6$
18. $(-10)\times(+5) = -50$ years
19. $(\$-682)\times(+4) = \$-2728$
20. $(-3)\times(+9) = -27$ runs

Lesson Practice 3C

1. $(+8)\times(-5) = -40$
2. $(-6)\times(+10) = -60$
3. $(-3)\times(-4) = +12$
4. $(-20)\times(+12) = -240$
5. $(+17)\times(+3) = +51$
6. $(-8)\times(-9) = +72$
7. $(-90)\times(+4) = -360$
8. $(+24)\times(-8) = -192$
9. $(+42)\times(-6) = -252$
10. $(-10)\times(-10) = +100$
11. $(+7)\times(-6) = -42$
12. $(-18)\times(-4) = +72$
13. $(-36)\times(+4) = -144$
14. $(+13)\times(-4) = -52$
15. $(-17)\times(-3) = +51$
16. $(+19)\times(-51) = -969$
17. $(\$-2)\times(+5) = \$-10$
18. $(-32)\times(+21) = -672$ hairs
19. $(-4)\times(+10) = -40$ losses
20. $(+7)\times(+14) = +98\ m^2$

Systematic Review 3D

1. $(+17)\times(-6) = -102$
2. $(+22)\times(-11) = -242$
3. $(-5)\times(-9) = +45$
4. $(-10)\times(+5) = -50$
5. $(+6)\times(-7) = -42$
6. $(-16)\times(+9) = -144$
7. $(+5)-(+10) =$
   $(+5)+(-10) = -5$
8. $(-6)+(-9) = -15$
9. $(+14)+(-3) = +11$
10. $20\div 2 = 10$
    $10\times 1 = 10$
11. $15\div 3 = 5$
    $5\times 2 = 10$
12. $27\div 9 = 3$
    $3\times 4 = 12$
13. $\frac{1}{10}+\frac{7}{10} = \frac{8}{10}$
14. $\frac{5}{7}-\frac{1}{7} = \frac{4}{7}$
15. $\frac{4}{8}+\frac{1}{8} = \frac{5}{8}$
16. $\frac{7}{12}-\frac{3}{12} = \frac{4}{12}$

17. $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$
18. $\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$
19. $(-2) \times (+13) = -26$ litres
20. $(+9) + (-2) = +7$ km

Systematic Review 3E

1. $(+16) \times (-10) = -160$
2. $(+17) \times (-10) = -170$
3. $(+23) \times (+11) = +253$
4. $(-8) \times (-4) = +32$
5. $(-7) \times (-8) = +56$
6. $(+10) \times (-11) = -110$
7. $(+8) - (+19) =$
   $(+8) + (-19) = -11$
8. $(+17) + (-5) = +12$
9. $(-63) - (-50) =$
   $(-63) + (+50) = -13$
10. $18 \div 3 = 6$
    $6 \times 1 = 6$
11. $49 \div 7 = 7$
    $7 \times 3 = 21$
12. $44 \div 11 = 4$
    $4 \times 2 = 8$
13. $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$
14. $\frac{5}{6} + \frac{1}{6} = \frac{6}{6}$
15. $\frac{4}{13} + \frac{5}{13} = \frac{9}{13}$
16. $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$
17. $\frac{5}{8} = \frac{10}{16} = \frac{15}{24} = \frac{20}{32}$
18. $\frac{1}{8} + \frac{2}{8} = \frac{3}{8}$ of the house
19. $(\$ + 25) + (\$ - 30) = \$ - 5$
20. $(+5) \times (+5) = +25$ km^2

Systematic Review 3F

1. $(+14) \times (-5) = -70$
2. $(-18) \times (+11) = -198$
3. $(-9) \times (-12) = +108$
4. $(+14) \times (-6) = -84$
5. $(-19) \times (-23) = +437$
6. $(-19) \times (+17) = -323$
7. $(+32) + (-18) = +14$
8. $(-94) + (-7) = -101$
9. $(+58) - (+100) =$
   $(+58) + (-100) = -42$
10. $20 \div 5 = 4$
    $1 \times 4 = 4$
11. $21 \div 3 = 7$
    $7 \times 2 = 14$
12. $50 \div 10 = 5$
    $5 \times 3 = 15$
13. $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$
14. $\frac{4}{7} - \frac{2}{7} = \frac{2}{7}$
15. $\frac{1}{9} + \frac{5}{9} = \frac{6}{9}$
16. $\frac{1}{6} = \frac{2}{12} = \frac{3}{18} = \frac{4}{24}$
17. $\frac{3}{7} = \frac{6}{14} = \frac{9}{21} = \frac{12}{28}$
18. $\frac{5}{12} - \frac{3}{12} = \frac{2}{12}$ of a pizza
19. $(\$ + 15) \times (+4) = \$ + 60$
20. $(\$ - 20) \times (+4) = \$ - 80$
    $(\$ - 80) + (\$60) = \$ - 20$

Honours Solutions

Honours Lesson 3

1. $68 \div 4 = 17$ units on a side

   $17 \times 17 = 289$ units^2

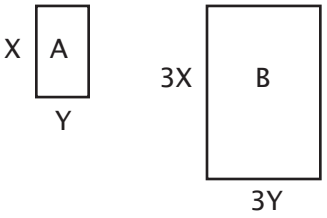
2. $8 \times 6 = 48$ units^2

   $16 \times 12 = 192$ units^2

   $192 \div 48 = 4$ times the original

3. $4 \times 3 = 12$ units^2

   $12 \div 48 = \frac{1}{4}$ the original

4. 

   area of rectangle A = XY units^2

   area of rectangle B = 9XY units^2

   $9XY \div XY = 9$

   The area of B is 9 times that of A.

5. 39

6. 13 This can easily be solved by drawing a diagram or a number line.

7. rectangle: $14 \times 16 = 224 \text{ cm}^2$

   triangle: $\frac{1}{2} \times 14 \times 15 = 105 \text{ cm}^2$

   total: $224 + 105 = 329 \text{ cm}^2$

8. $3.14\left(15^2\right) = 706.5 \text{ cm}^2$

   $3.14\left(12^2\right) = 452.16 \text{ cm}^2$

   $706.5 - 452.16 = 254.34 \text{ cm}^2$

Test Solutions

Test 3

1. $(-20)\times(-4) = +80$
2. $(+19)\times(-3) = -57$
3. $(-30)\times(-17) = +510$
4. $(-27)\times(+8) = -216$
5. $(-9)\times(+2) = -18$
6. $(-7)\times(-29) = +203$
7. $(+33)-(-46) =$
   $(+33)+(+46) = +79$
8. $(-27)+(-10) = -37$

9. $(-41)-(-20)=$
$(-41)+(+20)=-21$

10. $24\div 3=8$
$8\times 1=8$

11. $15\div 5=3$
$3\times 2=6$

12. $28\div 7=4$
$4\times 3=12$

13. $\frac{5}{8}-\frac{3}{8}=\frac{2}{8}$

14. $\frac{7}{10}-\frac{1}{10}=\frac{6}{10}$

15. $\frac{1}{4}+\frac{1}{4}=\frac{2}{4}$

16. $\frac{1}{5}=\frac{2}{10}=\frac{3}{15}=\frac{4}{20}$

17. $\frac{2}{3}=\frac{4}{6}=\frac{6}{9}=\frac{8}{12}$

18. $\frac{1}{5}+\frac{3}{5}=\frac{4}{5}$ of the chores

19. $\$-4\times(+5)=\$-20$

20. $(-2)\times(+6)=-12$ m