

MATHEMATICS 6

Answer Key

CHAPTER 6

880. $-8 + (-19) = -(8 + 19) = -27$ **881.** a) $-3 + (-2) = -5$; b) $-15 + (-15) = -30$ **882.** a) -7 points, -4 points, -8 points; b) -10 points, -15 points, -11 points.

883. a) -11° ; b) -11° ; c) -2° ; d) -16° ; e) -12° ; f) -17° ; g) -19° ; h) -18° . **884.** a) $-30, -80, -100$; b) $-30, -33, -50$; c) $-500, -490, -1000$.

885. a) $-44.1, -338.11, -5942, -742.5$; b) $-154.79, -42.12, -457.9, -181$; c) $-2.74, -72.9, -0.36, -8.3$; d) $-4.1, -22.2, -4, -14.89$.

886. a) $-\frac{3}{4}, -2\frac{2}{3}, -\frac{5}{6}$; b) $-1\frac{2}{5}, -4\frac{3}{7}, -\frac{19}{24}$; c) $-1, -6\frac{2}{5}, -1\frac{4}{15}$. **887.** a) -5.6 ; b) -17.3 ; c) -3.1 ; d) $-1\frac{14}{15}$. **888.** a) $-4.35, -6\frac{5}{6}, -3.4$; b) $-1.95, -5\frac{33}{35}, -3\frac{11}{30}$.

889. $-13\frac{1}{4}$. **890.** a) -361 ; b) -1.5 ; c) $-\frac{1}{3}$; d) 5.8 . **891.** a) -3 ; b) 0 ; c) -8 ; d) 6 . **892.** a) 4 and -8 ; b) 50 and -20 . **893.** a) $-3 + 2 = -1, 5 + (-3) = 2, -7 + 5 = -2$;

b) $-2 = 2 = 0, 0 + (-4) = -4, 8 + (-2) = 6$. **894.** a) $40, 12, -20$; b) $400, -80, 400$; c) $8, -14, 0$; d) $0, -48, -100$. **895.** a) $65.6, 415.6, -133$; b) $-22.5, 122.79, 3998$;

c) $-1.3, -7.16, 4.87$; d) $2, 0.01, -1.12$. **896.** a) $\frac{4}{7}, -\frac{3}{9}, -\frac{2}{3}$; b) $\frac{2}{15}, 0, \frac{1}{2}$; c) $-\frac{1}{12}, -2\frac{1}{3}, \frac{5}{8}$; d) $-1\frac{5}{9}, 5\frac{1}{7}, 2\frac{5}{36}$. **897.** a) -2.66 ; b) 3.8 ; c) -8.2 ; d) $-1\frac{1}{3}$.

898. a) It will increase; b) It will decrease. **899.** a) $(-10) + 5 = -5, 30 + 10 = 40, (-8) + 9 = 1$; b) $5 + (-5) = 0, (-10) + (-10) = -20, 10 + 10 = 20$.

900. a) T, T, T; b) F, T, F; c) F, T, T; d) T, F, T. **901.** a) $1.85, -1.76, -1.35$; b) $-1\frac{1}{12}, 1.51, -\frac{2}{15}$; c) $-\frac{1}{3}, -3.13, \frac{161}{300}$. **902.** a) -88 ; b) -24.54 ; c) 3.25 .

903. $\frac{5}{6}$. **904.** a) $a = 0$; b) $b = 0$; c) $b = 0$. **905.** Yes, if $b < 0$. ex: $7 + (-2) = 5$. **906.** a) F, T; b) T, F; c) F, T. **907.** a) T, F; b) F, T; c) F, T. **908.** $-3\frac{3}{14}$.

909. $-1000 + 100 = -900$. **910.** a) $186, 325, 673$; b) $10.8, 2.99, 9.7$; c) $4\frac{1}{9}, 3\frac{4}{7}, 6\frac{1}{6}$. **911.** $d = \frac{4}{3}v + 47.5$; a) 63.5 km; b) 75.9 km.

912. a) $y = 7307, x = 1722, t = 2722$; b) $a = 0.305, c = 7.15, x = 0.11$; c) $x = 1\frac{3}{10}, z = \frac{13}{54}, s = \frac{1}{48}$. **913.** a) 8, 90, 8; b) 30, 10.5, 30; c) 88, 1.8, 10.

914. a) 200; b) 50; c) 200; d) 100; e) 300; f) 300; g) 24; h) 49; i) 81; j) 4. **915.** a) 50%, $16\frac{2}{3}\%$, 20%; b) 200%, 20%, 20%; c) 10%, 500%, 125%;

d) 3%, 20%, 62.5%. **916.** 90g of protein; 86.4g of fat. **917.** 66.4%. **918.** 60 vehicles. **919.** Q: What was the final sale price of the backpack? A: \$26.93.

920. Approx. 73.5 times smaller. **921.** a) $57, -37, 8.9, 3$; b) $-1, 32, -11.8, -2\frac{1}{9}$. **922.** -3 . **923.** a) $-8, -6, -4.9, -\frac{3}{7}$; b) $3, -30, 0, -1$.

924. a) 1; b) 0; c) 8; d) 10; e) 0. **925.** a) -34 ; b) 60; c) 20; d) 0. **926.** a) 0; b) 69.72; c) 988.99; d) -36.12 ; e) $\frac{1}{3}$; f) $\frac{1}{2}$. **927.** a) -33 ; b) 0.1.

928. a) -1.15 ; b) -12.68 ; c) $-\frac{1}{2}$; d) $-3\frac{6}{7}$. **929.** a) 2.3, 10.3; b) $-7.9, 0.1$; c) $-1.6, 6.4$; d) $19.4, 27.4$. **930.** a) -7.6 ; b) -7.6 ; c) 32.8; d) 7.6.

931. If z and t are opposite numbers, or if they are both zero. **932.** See text. **933.** a) $1, -8, -1, 9$; b) $12, -5, 0, -4$; c) $-3, 10, -12, -3$; d) $-3, 3, -11, 15$.

934. a) $-9590, -675, 619, 817, 245$; b) $-69.6, 52.4, -29, -368.29, -16.01$; c) $-\frac{5}{8}, 1\frac{1}{3}, -\frac{1}{12}, -\frac{5}{14}, -\frac{1}{12}$. **935.** $15, 5, 0, -3, -10, -20, -22, 2, -11, -9$.

936. $10, 15, 8, 9, 20, 0, -5, 13, -11, 11$. **937.** a) $-79, 79$; b) $-12.39, 12.39$; c) $-610, 610$; d) $870, -870$. **938.** a) $+5^\circ$; b) -5° ; c) -5° ; d) -3° ; e) -5° ; f) -15° ; g) -8° ; h) -9° ; i) -10° . **939.** a) $x = 57$ x = 57; b) $u = -1.8$; c) $y = 13.89$. **940.** a) $-1, 1, -2$; b) $\frac{1}{5}, -\frac{1}{3}, 1\frac{1}{3}$; c) $-\frac{2}{5}, \frac{1}{5}, \frac{4}{9}$; d) $-1\frac{1}{5}, 1, -2$.

941. a) $-\frac{5}{6}, -2\frac{2}{5}, 1\frac{1}{30}$; b) $-11\frac{4}{9}, 2\frac{3}{70}, 10\frac{1}{15}$; c) $-3\frac{1}{3}, -1.65, 3.6$. **942.** a) T, T, F; b) T, F, T; c) F, T, F. **943.** Answers may vary; ex: $5 - 3 = 2$; $3 - 5 = -2$.

944. $1 - 99 = -98$. **945.** Q: What is the lowest temperature ever recorded under laboratory conditions? A: -273.14° . **946.** 6. **947.** a) $1, -2, 13$; b) $-12, 30, 0$; c) $3, -50, 30$. **948.** a) $0, -4, 4, 13$; b) $8, -6, -2, 0$; c) $-14, 5, -2, 1$. **949.** a) $1, -8, 6, 0$; b) $-1, 11, -15, -15$. **950.** a) -716 ; b) -4.4 ; c) 8.56 ; d) -12.3 ; e) $-283,211$; f) $-1,846,341$; g) -11.9 ; h) 0 ; i) -0.1 ; j) 0.871 . **951.** a) -3 ; b) 0.25 . **952.** a) $x = -51$, $y = 1.76$, $a = 10.6$; b) $x = -56$, $a = -11.68$, $y = 48.6$;

c) $z = 589$, $x = 1.4$, $y = -1.17$. **953.** a) -10 ; b) -9 ; c) -3.21 ; d) -20.34 . **954.** a) 2; b) 2; c) $13\frac{1}{6}$. **955.** a) -11 ; b) -0.5 ; c) -1.2 . **956.** $-3; -3$.

957. Row 1: $2, 2, 2, -2$; Row 2: $50, 50, -50, 50$; Row 3: $60, 60, 40, -40$; Row 4: $40, 40, -20, 20$. **958.** a) F, F, F, T; b) F, T, T, F; c) F, T, F, F.

959. a) $7, -50, -9$; b) $2, -2, 1$. **960.** a) $x = 15$, $x = -2$, $x = -21$; b) $m = -33$, $n = 9$, $x = -5$. **961.** 7. **962.** See text. **963.** a) 1; b) 3; c) 11; d) 3; e) 5; f) 6.

964. a) 4.9; b) 2.5; c) 2.1; d) 5.4; e) 4.2; f) 3. **965.** $B = 2$ or -6 . **966.** $K = 7$ or -5 . **967.** Area = 35, Perimeter = 24. **968.** a) Area = 9, Perimeter = 12;

b) Area = 25, Perimeter = 20. **969.** Area = 21, Perimeter = 20. **970.** Area = 300 m^2 , Perimeter = 70 m. **971.** a) $9, \frac{5}{3}, \frac{7}{10}$; b) $\frac{1}{15}, 36, \frac{3}{5}$; c) $0.042, 27.1, 9.5$;

d) $0.043, 31.2, 70$. **972.** a) $12\frac{6}{7}, 1\frac{1}{3}, 17\frac{11}{32}$; b) $7, 12, \frac{4}{5}$; c) $2.678, 0.152, 541.8$; d) $5.6, 240, 152$. **973.** a) $155.361, 2\frac{5}{6}, 2\frac{1}{20}$; b) $0.3839, 2, 1$.

974. $p = 2n + 9.8$; a) 18.4 cm ; b) 22.4 cm . **975.** $-3, -1.5, 0, 1, 3$. **976.** 1 hr. 36 min. **977.** See text. **978.** a) $<$; b) $>$; c) $=$; d) $>$; e) $>$; f) $=$.

979. a) $56, -56, -56$; b) $-30, -40, 0$; c) $-0.06, -2, -120$; d) $-0.085, -2.1, 2.4$. **980.** a) $-\frac{3}{20}, -\frac{12}{35}, \frac{3}{16}$; b) $-\frac{9}{35}, \frac{3}{16}, -\frac{2}{9}$; c) $-\frac{3}{5}, \frac{8}{9}, 0$; d) $\frac{21}{40}, -\frac{1}{24}, -\frac{3}{40}$; e) $-1, -\frac{2}{5}, 6$; f) $-1, 1, -\frac{9}{4}$. **981.** a) $-162, 1005, -13.05$; b) $310, 41,067, -51.038$; c) $-420, -139.75, 0.0202$; d) $\frac{5}{6}, 1\frac{4}{21}, -\frac{3}{7}$; e) $2\frac{1}{2}, 3, \frac{1}{6}$; f) $-5\frac{1}{2}, 12\frac{2}{15}, -\frac{1}{12}$.

982. $-18; 21.6; -13.5; 70.56$. **983.** $-1, 1, -\frac{3}{10}, 1\frac{3}{5}, -4, \frac{2}{5}$. **984.** a) $-10, -4.6, \frac{1}{8}$; b) $27.3, -156.24, \frac{1}{4}$. **985.** $-31.5; -18; -25.2; -10.8$.

986. a) $-\frac{9}{20}, 3\frac{4}{5}, 3\frac{6}{7}$; b) $-\frac{3}{8}, 18.9, -14$; c) $1\frac{11}{12}, -20\frac{1}{2}, \frac{1}{30}$. **987.** $-1 \cdot 6, -1 \cdot 8, -1 \cdot (-9), -1 \cdot (-10), -1 \cdot 0.5, -1 \cdot 1.2, -1 \cdot 1$. **988.** $1 \cdot 1, -2 \cdot (-2), 3 \cdot 3, 5 \cdot 5, -6 \cdot (-6)$, $-10 \cdot (-10)$; 2 possibilities for each number. **989.** $-1 \cdot 1, -3 \cdot 3, -4 \cdot 4, -6 \cdot 6, -10 \cdot 10$. **990.** a) -1.2 ; b) -10 ; c) -62.4 ; d) 16.6 ; e) $\frac{5}{48}$. **991.** a) -4 ; b) -1 ; c) -4.85 .

992. a) both positive; b) one is negative; c) one is zero; d) both greater than or equal to zero. **993.** a) $7, -7, 2$ or 1 ; b) $-3.2, 5, -2$ or 1 . **994.** See text

995. a) $-$; b) $+$; c) $-$; d) $-$. **996.** a) $2.11, -1002, 9$; b) $1, -3, 4\frac{1}{3}$. **997.** a) $70, 80, -160$; b) $3.8, -7.2, -36$; c) $3, -7, -8$; d) $4, 3, -4$.

998. a) $8, 5, -1\frac{1}{4}$; b) $-1\frac{3}{4}, \frac{5}{12}, -1$; c) $\frac{2}{5}, -\frac{3}{8}, \frac{2}{5}$; d) $\frac{4}{21}, -12, 1$. **999.** a) -68 ; b) -1.5 . **1000.** a) $-48, -2, \frac{1}{5}$; b) $61, -4, \frac{1}{8}$.

- 1001.** a) $1\frac{2}{5}$; b) 9; c) $-\frac{1}{6}$; d) $45\frac{9}{32}$. **1002.** a) $-$; b) $-$; c) $-$; d) $+$; e) $+$; f) 0. **1003.** a) either two are negative and one is positive; or all are positive; b) either two are negative and one is positive or zero; or all are positive or zero; c) either all are negative or only one is negative; d) either all are negative or zero; or two are negative and one is zero or positive; or one is negative and two are positive or zero. **1004.** A) 6 and 6; b) 24 and 24; c) 24 and 24; Conjecture: $|abc| = |a| \cdot |b| \cdot |c|$.
- 1005.** a) $-4 \cdot 5 \cdot 2 = -40$; b) $5 \cdot 0.2 = 1$; c) $-2 \cdot \frac{1}{2} = -1$. **1006.** a) 2, 1, -2 ; b) $-51, -1, 3$; c) $-0.74, -1, 1$; d) $-\frac{5}{6}, 1, 2.1$. **1007.** a) 35, 9, -1 ; b) 30, $-10, -15$; c) $-8, -6, 7$. **1008.** a) $-13.025st, -abc, -3\frac{1}{3}abc$; b) $5.04b, mn, 6ab$. **1009.** a) $\frac{5}{4}ab, -1\frac{4}{5}cdf, \frac{1}{225}xz$; b) $-6.4stx, \frac{5}{6}y, abcd$. **1010.** Answers may vary:
a) $-\frac{4}{9}ab$; b) xy ; c) 0. **1011.** a) 2, $-16, 15$; b) $-15, -7, 0$. **1012.** a) 830, 69, 0.65, 7.6; b) $-59.08, 6.375, -19.6, 15.5$. **1013.** $\frac{1}{7}, 3\frac{2}{3}, 2.5, \frac{10}{13}, 1\frac{1}{9}, \frac{3}{7}, \frac{5}{9}$.
1014. a) $\frac{5}{9}, 1\frac{1}{4}$; b) $4\frac{1}{2}, 1\frac{1}{3}$; c) 5, 6; d) $\frac{3}{8}, 50$. **1015.** 162 m. **1016.** 6.5%. **1017.** a) $9x, 5a, 32y$; b) $11a+4, 0.5x-3, 32b+7$; c) $9x, 4.3y, 2.6z$.
1018. $3m+325$ workers; a) 592; b) 1063. **1019.** Perimeter: 26; Area: 40. **1020.** See text. **1021.** a) $2x+2, 3t-6, -4x-2$; b) $-4a-3, -8x+28, 5n+6$; c) $-6a+2, -8.3z+5.2, 7x+9.6$; d) $-n-2\frac{1}{2}, -2x-\frac{3}{4}, -\frac{3}{4}y+\frac{5}{6}$. **1022.** a) $-2a+4b-2, 6a-9b-12, -5x+2y+10$; b) $12-8x+20k, 6-18c+6d, -7a-7b+14$; c) $-6a+12b-9, -4x+2y-9, 5a-10b-15$; d) $-2a-4b+10, -7-x+y, 5-2a-b$.
1023. a) $9(b+c), 4(c-d), -6(x+y)$; b) $3(x+y), 8(b-c), 7(a+b)$; c) $5(x-y), 6(x+y), -2(a-b)$; d) $7(x-2), 3(2a+3), 5(3y-2)$.
1024. a) $-15x-35+5t, 3.6a+10.2b+6, -4a+5b+3$; b) $0.7x+0.35y-0.7, -8x-y+9, -4x+8t-2z$; c) $3ax-ay+az, 2ax-6ay+4az, -4x+3y-1.5z$; d) $-2mn+3mx-m, -2am+6bm-10cm, 7.5a+10b-3c$. **1025.** a) $5 \cdot (-100+5) = -500+25 = -475$, $24 \cdot (-100+1) = -2400+24 = -2376$, $9 \cdot (-100+2) = -900+18 = -882$; b) $-9 \cdot (100+1) = -900-9 = -909$, $67 \cdot (1000+2) = 67,000+134 = 67,134$, $19 \cdot (-100-3) = -1900-57 = -1957$; c) $17 \cdot (100+2) = 1700+34 = 1734$, $-67 \cdot (1000+2) = -67,000-134 = -67,134$, $-24 \cdot (-100+1) = 2400-24 = 2376$. **1026.** a) $-54 \cdot 6 + 6 \cdot 74 = 6 \cdot 20 = 120$; b) $478 \cdot 75 - 75 \cdot 678 = 75 \cdot (-200) = -15,000$. **1027.** a) $13x, 2y, -3y$; b) $-12m$ (typo in text), $-7a, -4x$; c) $6a, -x, 0$. **1028.** a) $-a-6b, -3y, 0$; b) $-2a+b+10, -6a+15, 6x+12y-10$. **1029.** a) $-5x; 20, -3.5$; b) $3a : -45, \frac{1}{2}$; c) $-14y : -33.6, 4$. **1030.** a) $8n+3n$; a) 66 cm; b) 15.4 cm.
1031. a) $11a$ (typo in text); b) $3a$. **1032.** a) $2x-12, -2, -5m$; b) $c-5, -3m+8, 3$; c) $8, -6x+20, -12a$; d) $-2x+9, -4a+4, a+5$.
1033. a) $0.9x, 2.6c-5.4d, -3.5a-2.5b$; b) $1\frac{2}{3}a, -\frac{1}{2}x, -\frac{1}{2}b-\frac{3}{7}c$; c) $-1.6m-8.3, -0.8u+5.2v, -7x-0.7$; d) $-\frac{1}{2}a+\frac{1}{2}x, 0.2, 1.2a-\frac{1}{3}b$.
1034. a) $2, a, -10b-1$; b) $2x+8, -t, -4a-15$; c) $1, -x-6, 3a+7$; d) $a+10, 0, -13a+2$. **1035.** $-7c-6, 15$.
1036. a) $7c+2d$; b) $14a+2b$; c) $10a+14b+2c$. **1037.** a) $x=2, y=1, a=1$; b) $x=2, a=-16, z=27$. **1038.** a) 5, 3, 0; b) $-3, -5, 3$; c) $-2, -3, -2$; d) $2, -2.1, -0.3$. **1039.** a) $-2.5, -0.5, -30.5$; b) $20, -0.16, -20.5$; c) $-\frac{1}{2}, 0.34, 0.37$. **1040.** a) $2, -\frac{5}{6}$; b) $-1, -1\frac{9}{11}$; c) $-1\frac{1}{4}, -\frac{2}{5}$. **1041.** a) 2, 1, 6, 1; b) $-2, 1, 35, 49.5$. **1042.** a) $-1\frac{1}{4}, -3\frac{1}{7}, 3\frac{2}{3}$; b) $-\frac{1}{9}, -2, -2$. **1043.** a) $\boxed{a \div 3} : 1, \frac{1}{3}, \frac{1}{9}, 0, -0.5, -2$; $\boxed{-6 \div a} : 2, 6, 18, \emptyset, -4, -1$. **1044.** $-2.7, -31.2, 3.3$.
1045. a) $-2, -\frac{2}{5}, -1\frac{1}{5}$; b) $-5, -6, -2\frac{1}{4}$; c) $-5, 3, 20$. **1046.** a) $-105, 2\frac{33}{35}, 10.5$; b) $2\frac{1}{12}, -\frac{15}{43}, -17$; c) $\frac{3}{10}, -2\frac{2}{9}, \frac{1}{5}$. **1047.** a) -111 ; b) -53 ; c) -350 ;

d) -2; e) -4. **1048.** a) -35; b) $-5\frac{1}{4}$. **1049.** a) 66.1; b) 2.3964; c) 1. **1050.** -2, $-2\frac{3}{5}$, $\frac{1}{3}$, 0. **1051.** a) 6 and 6; b) 5 and 5; c) 0.88 and 0.88; d) 0.66 and 0.66.

1052. a) -30.4 , $-\frac{9}{10}$, $-\frac{1}{4}$; b) $-2, 7, -3$. **1053.** a) $37, -10.3$; b) $1.2, 6$; c) $91, b$. **1054.** a) 3, 3.2; b) 4, $3a$; c) -4, 10. **1055.** a) $x = 2$ or -2; b) $x = 30$ or -30.

1056. See text. **1057.** a) $x = 1$, $y = 4$, $a = 4$, $y = 2$; b) $x = -3.5$, $m = -4$, $m = 16$, $x = 4$. **1058.** a) $x = -9$, $y = 1$, $t = 2\frac{2}{3}$; b) $z = 1$, $z = 2$, $x = -\frac{1}{3}$; c) $x = -3$, $x = \frac{2}{5}$, $y = \frac{3}{5}$. **1059.** Step 1: Remove parentheses; Step 2: Combine like terms left side; Step 3: Move $3x$ and 2.1 to from one side of the equation to the other, switching their signs; Step 4: Combine like terms; Step 5: Divide both sides by 4. **1060.** a) $x = -6$, $z = -1$, $x = 5$; b) $z = 4$, $x = -24$, $x = 13$; c) $y = 3$, $x = 2$, $x = 2$; d) $x = 9$, $x = -1\frac{1}{4}$, $x = -2$. **1061.** a) $x = 2$, $t = -1.56$, $x = -1.3$, $x = -30$, $x = 12$; b) $x = -12$, $x = -3$, $x = -\frac{9}{2}$, $x = -3$, $x = 11$. **1062.** Because they cancel each other out. **1063.** a) $x = 2$, $y = 5$, $a = 10$, $x = 1$, $x = -2$; b) $y = -7$, $z = -6$, $x = 1\frac{1}{2}$, $x = -2$, $x = \emptyset$. **1064.** a) $x = -2$; b) $t = 1$; c) $v = 0$; d) $x = -9$; e) $z = 2$; f) $x = 6$; g) $x = -2$; h) $n = 8$. **1065.** a) $2x + x = 39$... $x = 13$; b) $45 - x = 3x$... $x = 11.25$; c) $(42 - y) \cdot 3 = 96$... $y = 10$; d) $4m - 73 = 183$... $m = 64$; e) $6x + (x + 9) = 44$... $x = 5$. **1066.** 93 and 72. **1067.** 34 kg and 68 kg. **1068.** 35 and 40. **1069.** 24 cm and 8 cm. **1070.** length: 39 m; width: 24 m.

1071. Length- 19.5 cm; Width- 6.5 cm. **1072.** 82° and 41° . **1073.** 17. **1074.** 36. **1075.** 18, 36, and 40. **1076.** 12 years old. **1077.** 7 years old.

1078. 45 cm, 22.5 cm, and 17.5 cm. **1079.** 1 hr. 12 min. **1080.** 2 hours. **1081.** 216 km. **1082.** The U.S. won 97 medals, Russia- 88. **1083.** 40 gold, 24 silver, 33 bronze. **1084.** 1st mechanic- 10 cars, 2nd mechanic- 8. **1085.** 50 g. **1086.** 48. **1087.** a) -28, -101, -60; b) -2, -7, 70; c) -20, -1, -16; d) 6, 7, 7.

1088. a) -4, 3, -3; b) -13, 2, 7. **1089.** a) $-5, -7.2, -\frac{14}{15}$; b) $0.33, -4.9, -\frac{1}{2}$; c) $-58.73, -25.66, 1\frac{5}{6}$. **1090.** a) $63, -1.2, \frac{1}{7}$; b) $-18, 9, -\frac{8}{9}$; c) $4, 27, -\frac{1}{8}$

d) $0.1, -0.3, -\frac{10}{11}$; e) $0.01, -0.02, -0.1$; f) $-8.4, -5.6, 3.6$. **1091.** a) $240, -3.64, 4$; b) $-18.36, -0.15, \frac{1}{2}$; c) $-0.5, -5, 1\frac{1}{9}$; d) $\frac{1}{6}, 4.5, 2.5$; e) $-1, -1\frac{1}{3}, 7$; f) $-4, 1, -0.6$. **1092.** a) -50; b) 9. **1093.** a) 1; b) 13; c) -119; d) -23.727; e) 80; f) -52; g) -29; h) 1.305. **1094.** a) -0.7; b) -151; c) -210.1; d) -0.2.

1095. a) -1.3; b) 0.5. **1096.** 0.9. **1097.** 20. **1098.** 540. **1099.** 100%. **1100.** a) T, F, T, F; b) T, T, F, T; c) F, T, T, T; d) F, F, T, F [note: there are 7 incorrect answers, not 6]. **1101.** a) -1.5, 1.3, -20.6; b) -16.3, 14.6, -8.6; c) 23.0, -0.6, -1.4. **1102.** a) -7.25, -16.0461; b) 14.19, -38.85. **1103.** See text. **1104.** See text.

1105. a) $0, 164, -3.4, 5\frac{5}{9}$; b) $8, -30, -2.4, -1\frac{1}{6}$; c) $-0.43, \frac{7}{36}, -7, -60$. **1106.** a) -10, 1, -18; b) 240, -1.4, 4. **1107.** a) $-305, -67.2, -1\frac{1}{3}, 2\frac{7}{12}$;

b) $-10.44, 1.092, -6\frac{2}{3}, -2$; c) $20.5, -3020, -5, \frac{27}{50}$. **1108.** a) 11; b) -2; c) -11; d) $\frac{2}{9}$. **1109.** 3.5; -1; $2\frac{7}{9}$. **1110.** a) $2c$; b) $-6x - 3y$; c) $0.2a + 4.7b$;

d) $-\frac{5}{6}x - \frac{3}{5}$. **1112.** The Distributive Property. **1113.** a) $-15x - 11y$; b) a ; c) $5m$; d) $-y$. **1114.** a) 4; b) -0.3; c) -2; d) -4. **1115.** 64.5 and 92.5.

1116. 100, 300 and 285. **1117.** 1.2 hrs. or 1 hr. 12 min. **1118.** 6.1.