

Unit 0 Review Answers

review 2.1	$\frac{9}{4}$	review 4.1	$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$	review 7.1	81	review 10.1	120
review 2.2	12	review 4.2	1	review 7.2	5	review 10.2	$\frac{1}{10}$
review 2.3	-1	review 4.3	6^4	review 7.3	$\frac{4}{3}$	review 10.3	0
review 2.4	$\frac{9}{7}$	review 4.4	10	review 7.4	-9	review 10.4	132
review 2.5	7	review 4.5	6^5	review 7.5	-27	review 10.5	$\frac{11}{4}$
review 2.6	15	review 4.6	6	review 7.6	18	review 10.6	$-\frac{15}{7}$
review 2.7	12	review 4.7	9^{10}	review 7.7	8	review 10.7	270
review 2.8	-10	review 4.8	54	review 7.8	36	review 10.8	1863
review 2.9	7	review 4.9	3^4	review 7.9	9	review 10.9	$\frac{19}{147}$
review 2.10	-3	review 4.10	2	review 7.10	27	review 10.10	2
review 2.11	12	review 4.11	8	review 7.11	5		
		review 4.12	-8	review 7.12	-9		

review 3.1	1	review 6.1	27	review 8.1	100
review 3.2	25	review 6.2	1600	review 8.2	122
review 3.3	15	review 6.3	8	review 8.3	$8 \cdot 8 \cdot 8 \cdot 8$
review 3.4	3	review 6.4	$5^3 9^5$	review 8.4	90
review 3.5	-4	review 6.5	392	review 8.5	1
review 3.6	15	review 6.6	225	review 8.6	13
review 3.7	15	review 6.7	1125	review 8.7	-45
review 3.8	13	review 6.8	10	review 8.8	-31
review 3.9	4	review 6.9	225	review 8.9	90
review 3.10	-9	review 6.10	350	review 8.10	2
review 3.11	0	review 6.11	588	review 8.11	3
		review 6.12	$-\frac{3}{7}$	review 8.12	800
				review 8.13	4
				review 8.14	8
				review 8.15	$-\frac{16}{9}$
				review 8.16	-47
				review 8.17	$\frac{43}{7}$
				review 8.18	$\frac{1}{7}$
				review 8.19	<i>undefined</i>
				review 8.20	1
				review 8.21	6

Unit 1 Application and Review Answers

a1: 30 units ²
a2: 26 units
a3: 28 inches
a4: 25 in ²
a5: 20 units ²
a6: $49\pi mm^2$ or $153.9mm^2$
a7: 245
a8: 42 cm ²
a9: 34 inches
a10: 64 inches ²
a11: 32 units
a12: 22 m
a13: $121\pi ft^2$ or $380.1ft^2$
a14: 30 units
a15: 45 m ²
a16: 12π in. or 37.7in.
a17: 59 feet
a18: IQ=75
a19: 16 inches
a20: 21 units
r4.1: 81
r4.2: $49p^2$
r4.3: $\frac{a^{15}}{27}$
r4.4: $\frac{27b^{12}}{a^6}$
r4.5: 128
r4.6: $\frac{1}{3^2}$ or $\frac{1}{9}$
r4.7: $\frac{x^{15}}{y^{20}}$
r4.8: 8^{11}
r4.9: y^{16}

r4.10: t^7
r4.11: $\frac{8}{y^6}$
r4.12: y^{-2}
r4.13: $\frac{1}{y^{13}}$
r4.14: 16π units ² or 50.3 units ²
r4.15: $x^{24}y^8$
r4.16: $\frac{1}{m^6}$
r4.17: $\frac{y^6}{4}$
r4.18: $\frac{y^{15}}{x^{10}}$
r4.19: x^7
r4.20: x^{16}
r4.21: $\frac{1}{256x^4}$
r4.22: x^3
r4.23: $\frac{1}{7^{15}}$
r4.24: $\frac{9x^6}{y^{16}z^6}$
r4.25: $\frac{a^8}{b^{12}}$

r8.1: x^{10}
r8.2: 30 units
r8.3: $x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x$
r8.4: 81
r8.5: s^3
r8.6: $10x^2t^2$
r8.7: $\frac{x^8}{81}$
r8.8: t^5
r8.9: $-3 + \frac{3x}{4}$
r8.10: $2y - 10$
r8.12: $\frac{y^4z}{2x^5}$

r10.1: no
r10.2: $2x^3 - \frac{3x}{2}$
r10.3: no, contains x^2
r10.4: $-6x^7y^2z$
r10.5: yes
r10.6: $\frac{1}{25}$
r10.7: -25
r10.8: no
r10.9: no, variable in the denominator
Unit 1 Section 17
A21: 100 lbs.
A22: 135 min.
A23: 18 pancakes
A24: 350 drops
A25: 9500 gallons
A26: 5 plants
Unit 1 Section 18
A27: 152 games
A28: 7543 square mi.
A29: 305 feet
A30: 129
A31: 20.5 ft x 10.5 ft.
A32: 42 ft. x 57 ft.
A33: 15
A34: \$6.3 billion
A35: -10
A36: 20 gallons
A37: 60m, 180m, 240m
A38: 270mi x 380mi
A39: 83.25in x 27.75in