

Unit 9.1

1. a) variable b) constant c) variable d) variable e) constant f) variable
 2. a) 23; 25; 40 b) 34; 15; 10 c) 7; 63; 140 d) 100; 10; 1
 3. a) 80; 319; 496 b) 551; 260; 123 c) 108; 135; 180
d) 8; 4; 1 4. 1,3,5 5. b
 6. 25; 30; 36 7. 49; 70; 84; 105; 126
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Unit 9.2

1. a) $y+8$ b) $50-k$ c) $10 \times x$ d) $(x+y) \div 9$ e) $(a+y)+5$ f) $5+3y$
g) $(a+b)-8$ h) $p \times q-r$ i) $(k+10) \div 7$ j) $3x \times y \times z$ k) $(5+a) \div 2$ l) $(n-7) \div 3$
m) $(3x+2y)-6$ 2. $x-150$ 3. d
 4. a) 5 is subtracted from 4 times of x.
b) 2 times of y is subtracted from 7 times of x.
c) 9 times the sum of a and b.
d) The product of m and n is divided by 2.
e) The difference of 10 times k and 8 times p.
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Unit 9.3

1. a) 81 b) 625 c) 729 d) 32 e) 216 f) 64
 2. 32; 16; 8 3. c 4. Alex 5. 7; 15
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Unit 9.4

1. a) add 15; $m+15$ b) subtract 9; $k-9$ c) subtract 18; $r-18$
d) add 33; $p+33$
 2. a) subtract 12, $a-12$ b) add 56, $x+56$ c) subtract 22, $b-22$
d) add 47, $y+47$ e) add 39, $c+39$ f) subtract 31, $z-31$
 3. 1,125 4. d 5. 34 years 6. 36 years
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Unit 9.5

1. a) multiply by 7; $p \times 7$ b) divide by 4; $q \div 4$ c) divide by 9; $r \div 9$
d) multiply by 8; $k \times 8$ 2. a) divide by 5; $x \div 5$ b) multiply by 16; $y \times 16$
c) divide by 6; $z \div 6$ d) multiply by 12; $b \times 12$ e) multiply by 15; $b \times 15$
f) divide by 8; $c \div 8$
 3. a) 19 b) c c) 52
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Unit 9.6

1. constant; 31 2. $x-7$; 8
 3. 12; 120; 1,200; 12,000; 120,000 4. 729; 2,187
 5. a) 11; 3; 51 b) 10; 6; 30 c) 5; 12; 38 7. a) subtract 57; $k-57$
b) divide by 9; $m \div 9$ c) add 87; $r+87$ d) multiply by 7; $g \times 7$
 8. 180 9. 30
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