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## BLM 4.CR. 1

 (page 1)
## Chapter 4 Review

### 4.1 Solve Simple Equations, pages 186-195

1. Solve.
a) $5 y=35$
b) $b-8=-12$
c) $\frac{x}{4}=7$
d) $h+5=13$
2. Find each root.
a) $8 m+9=-15$
b) $2 p+7=3$
c) $5-4 k=-7$
d) $4+3 c=-12$
3. Solve, then check.
a) $-2 a=-22$
b) $3-q=-5$
c) $\frac{1}{2} g=-9$
d) $7-6 s=19$
4. Greg is 42 . He is 3 years older than Sue.
a) Write an equation relating Sue and Greg's ages.
b) How old is Sue?
4.2 Solve Multi-Step Equations, pages 196-203
5. Solve.
a) $2 m+5 m-3=4$
b) $4 b-6+b-9=0$
c) $3 x-x+4=0$
d) $2 k+3=4 k-5$
6. Find the root of each equation.
a) $2+(4 h-1)=11+2 h$
b) $8-(2 g+3)=3 g-5$
c) $2(d+6)=9(d-1)$
d) $5(3 r-7)+r=3(r-3)$
7. Find each root, then check.
a) $4 s+3-s=-6$
b) $p-3+2 p-9=0$
c) $5-(c+3)=4+c$
d) $3(4 d-7)-6=2(d+2)-1$
8. The perimeter of an isosceles triangle is 21 cm . The length of each equal side is triple the length of the base. Find the side lengths of the triangle.

### 4.3 Solve Equations Involving Fractions, pages 204-210

9. Solve.
a) $\frac{t-6}{2}=4$
b) $\frac{1}{3}(c+2)=1$
c) $\frac{4 a+1}{3}=-5$
d) $\frac{2}{3}(s-4)=4$
10. Solve.
a) $\frac{d+4}{2}=\frac{3 d}{4}$
b) $\frac{k-1}{2}=\frac{k+3}{4}$
c) $\frac{2}{3}(q-3)=\frac{1}{4}(q+7)$
d) $\frac{3 c-1}{5}=\frac{4 c+1}{9}$

### 4.4 Modelling With Formulas, pages 211-219

11. Rearrange each formula to isolate the variable indicated.
a) $A=l w \quad$ for $l$
b) $P=2 a+2 b \quad$ for $b$
c) $\begin{array}{ll}y=m x & \text { for } x\end{array}$
d) $l=w+4$ for $w$
e) $P=2 a+b \quad$ for $b$
f) $S=2 \pi r(r+h)$ for $h$

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### 4.5 Modelling With Algebra, pages 220-229

12. Write an equation for each phrase.
a) 4 less than triple a number is 23
b) the sum of double a number and 6 is 16
c) half a number, less 3 , is 8
d) the area decreased by 7 is 14
e) the sum of two consecutive integers is 49
f) the distance increased by 8 is 25

Date: $\qquad$

## BLM 4.CR. 1

 (page 2)13. Together, Blackie and Jessie have a mass of 72 kg . Blackie's mass is 4 kg less than Jessie's mass. What is each dog's mass?
14. Chantal works at a music store. She earns $\$ 8$ per hour plus $\$ 0.05$ for each CD she sells. Tonight she is working a 5 -h shift. How many CDs must Chantal sell to earn \$42?
