## Chapter Problems

**Directions: solve the following equations/expressions for the variable indicated. Show all work!**

**Solving for a variable** s = d

 t

**Class Work**

1. s = d for d

 t

1. s = d for t

 t

1. V= I for V

 R

1. V= I for R

 R

1. E = hf for h
2. E = hc for λ

 λ

1. d = st for s

1. M = g for g

 L

1. M = g for L

 L

1. E = hc for h

 λ

1. E = hc for c

 λ

1. 5g/mL) = \_(m)\_ for m

 20mL

**Solving for a variable** v = v0 + at

**Class Work**

1. v = v0 + at for a
2. v = v0 + at for v0
3. v = v0 + at for t
4. y = mx + b for b
5. y = mx + b for x
6. y = mx + b for m
7. a = v – v0 for t

 t

1. m = y– b for b

 x

1. hf = E + W0 for f
2. hf = E + W0 for W0
3. hf = E + W0 for E
4. a = v – v0 for v

 t

1. m = y– b for x

 x

**Answers**

1. d = st
2. t = d

 s

1. V = I

 R

1. R = I

 V

1. h = E

 f

1. λ = hc

 E

1. s = d

 t

1. g = ML
2. L = g

 M

1. h = Eλ

 c

1. c = E λ

 h

1. m = 100g
2. a = v – v0

 t

1. v0 = v - at

1. t = v – v0

 a

1. b = y - mx
2. x = y – b

 m

1. m = y – b

 x

1. t = v – v0

 a

1. b = y - mx
2. f = E + W0

 h

1. W0 = hf -E
2. E= hf - W0
3. v = v0 + at
4. x = y – b

 m

1. d = st
2. t = d

 s

1. V = I

 R

1. R = I

 V

1. h = E

 f

1. λ = hc

 E

1. s = d

 t

1. g = ML
2. L = g

 M

1. h = Eλ

 c

1. c = E λ

 h

1. m = 100g
2. a = v – v0

 t

1. v0 = v - at

1. t = v – v0

 a

1. b = y - mx
2. x = y – b

 m

1. m = y – b

 x

1. t = v – v0

 a

1. b = y - mx
2. f = E + W0

 h

1. W0 = hf -E
2. E= hf - W0
3. v = v0 + at
4. x = y – b

 m

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