

Warm Up Grade 7



**Use Mental Math** 

1) 0.3 x 40

2) 75% of 160

Solve using algebra

1) 2x - 5 = 33



#### Warm Up Grade 7



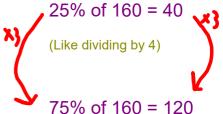
### **Use Mental Math**

1) 
$$0.3 \times 40$$
  
Thinking >  $3 \times 40 = 120$ 

but 0.3 x 40 has 1 digit after decimal so answer needs one digit after decimal.

$$0.3 \times 40 = 12.0$$

# 2) 75% of 160



#### Solve using algebra

1) 
$$2x - 5 = 33$$

$$2x - 5 = 33 + 5$$

$$2x = 38$$

$$2x = 38$$

$$x = 19$$

pa238

2 
$$m = the number$$

a)  $m+19=42$ 
 $m+19-19=42-19$ 
 $m=23$ 
 $m+19$ 
 $m=23$ 
 $m+19$ 
 $m=24$ 
 $m+19$ 
 $m=24$ 
 $m+19$ 
 $m=25$ 
 $m+19$ 
 $m=25$ 
 $m+19$ 
 $m=15$ 
 $m=15$ 

3. 
$$a = \pi r r s$$
 age now

 $2a + 5 = 27$ 
 $2a + 5 = 27 - 5$ 
 $2a = 22$ 
 $2a = 22$ 
 $2 = 2$ 
 $2 = 21$ 
 $2a = 22$ 
 $2 = 21$ 

Diri is now 11.

4.  $h = haurs$  Jenny body soft of  $h = 30$ 
 $h = 30$ 
 $h = 30$ 
 $h = 6$ 

Jenny body soft  $h = 30$ 
 $h = 6$ 

Jenny body soft  $h = 6$ 

Jenny body soft  $h = 6$ 
 $h =$ 

b. 
$$s = side$$
 length of square

Rer of Square + Per of  $\Delta = 56$ 

Per of  $\Box + 24 = 56$ 
 $4s + 24 = 56$ 
 $4s + 24 = 56 - 24$ 
 $4s = 32$ 
 $4s = 32$ 
 $4s = 32$ 

The length of the  $a = 32$ 

The length of the side is 8

7. Sawes 424 week has 472  $\omega = number of weeks$   $24\omega + 72 = 288$   $24\omega + 72 - 72 = 288 - 72$   $24\omega = 216$   $24\omega = 216$   $24\omega = 9$ 

In 9 weeks, she will have \$288

15 verify Rs 24w+72 288 14x9+72 216+72 288

y 10 solving equations.notebook

Extra Practice 4

1 
$$3x - 29 = 13$$
 $1 - 29 + 29 = 13 + 29$ 
 $1 = 42$ 

b)  $8x = 72$ 
 $8x = 72$ 
 $8x = 9$ 
c)  $7x = 49$ 
 $7x = 9$ 
 $1 = 49$ 
 $1 = 73$ 
 $1 + 19 = 73 - 19$ 
 $1 = 54$ 
e)  $3x - 8 = 46$ 
 $3x - 8 + 8 = 46 + 8$ 
 $3x = 64$ 
 $3x = 64$ 
 $3x = 64$ 
 $3x = 64$ 
 $3x = 8$ 
 $3x = 8$ 

$$54-8 \\ 41 \\ 2x+11-11 = 55 \\ 2x+11-11 = 55-11 \\ 2x = 44 \\ 2x = \frac{44}{2} \\ x = 22$$

$$2x+11 \\ 2x+11 \\ 2$$

The number is 56

b) 
$$\alpha - 13 = 47$$
  
 $\alpha - 13 + 13 = 47 + 13$   
 $\alpha = 60$ 

The number is 60

The number is 9

$$3at7=31$$

$$3at7-7=31-7$$

$$3a=24$$

$$3a=24$$

$$3a=24$$

$$3a=24$$

$$3=24$$

$$3=24$$

$$3=28$$

The number is 8

e) 
$$2a-5=29$$
  
 $2a-5+5=29+5$   
 $2a=34$   
 $2a=34$   
 $2a=34$   
 $2a=17$ 

The number is 17

The number is 10



#### Recall key words:

For each, for every per, / ←→this goes with the variable.

Example 1) Marie went bowling. It cost \$3 for shoe rental and \$2 for one game. The total amount of money was \$25. How many games did Marie play?

Hint: How many people went bowling? So how much for shoes?

#### Solution to Example

Marnie went bowling. It cost \$3 for shoe rental and \$2 for one game. The total amount of money was \$25. How many games did Marnie play?

$$\chi = \text{games played}$$

$$2 + 3 = 25$$

$$2 + 3 = 25 - 3$$

$$2 \times = 22$$

$$2 \times = 22$$

$$7 = 11$$
Marrie played || games.

## Class / Homework

Ex Prac 4 # 3, 4,5 (already have)

Page 243 # 1 6 2, 3 4

Test 3 days time

Extra Practice 4 Solving Equations byusin algebra pdf.pdf