

**Section 4 Skills****Grade 5****Week 1 2-Step Equations**

Materials:

Blackline Masters: *Skills 1, 2, 3, 4*, 1 per studentTransparencies: *Skills 1*

Pencils

**Mon Skills 1**

Direct Teaching

**2-Step Equations**

It is extremely critical that students write a detailed plan for each problem. Students will be more successful in working multiple-step problems if they write out each step using numbers and words to arrive at the number sentence.

Understand quadrant

All steps

Plan quadrant

See the following examples.

- A** Mr. Guzman spent \$28 at the hardware store. He bought sandpaper for \$3. He also bought 5 paintbrushes. If each paintbrush cost the same amount, which equation can be used to find  $p$ , the cost of each paintbrush?

A  $p = (28 + 3) \div 5$

B  $p = (28 - 3) \times 5$

C\*  $p = (28 - 3) \div 5$

D  $p = (28 - 3) + 5$

 $p$  = cost of each paintbrush

28 = amount spent

3 = cost of sandpaper

5 = number of paintbrushes bought

amount spent for brushes = amount spent – cost of sandpaper

cost of each brush = amount spent for brushes  $\div$  number of paintbrushes bought

$p = (28 - 3) \div 5$

- B** Lashawn bought 6 pencils for 12¢ each and 1 eraser for 10¢. Which equation can be used to find  $c$ , the cost of these items, not including tax?

F\*  $(6 \times 12) + 10 = c$

G  $(6 + 1) \times 12 = c$

H  $(6 \times 10) + 12 = c$

J  $(6 + 1) \times 10 = c$

 $c$  = cost of items

6 = number of pencils bought

12 = cost of each pencil

10 = cost of eraser

number of pencils bought  $\times$  cost of each pencil = total cost of pencils

total cost of pencils + cost of eraser = cost of items

$(6 \times 12) + 10 = c$

- A** Mr. Guzman spent \$28 at the hardware store. He bought sandpaper for \$3. He also bought 5 paintbrushes. If each paintbrush cost the same amount, which equation can be used to find  $p$ , the cost of each paintbrush?

- A  $p = (28 + 3) \div 5$   
B  $p = (28 - 3) \times 5$   
C  $p = (28 - 3) \div 5$   
D  $p = (28 - 3) + 5$

- B** Lashawn bought 6 pencils for 12¢ each and 1 eraser for 10¢. Which equation can be used to find  $c$ , the cost of these items, not including tax?

- F  $(6 \times 12) + 10 = c$   
G  $(6 + 1) \times 12 = c$   
H  $(6 \times 10) + 12 = c$   
J  $(6 + 1) \times 10 = c$

- C** On Saturday Mrs. Whiteside bought 3 packages of cookies. Each package contained 12 cookies. By Sunday morning, 9 of the cookies had been eaten. Which equation can be used to find the number of cookies,  $n$ , that were not eaten?

- A  $n = (12 - 9) \times 3$   
B  $n = (3 \times 12) - 9$   
C  $n = (12 \div 3) + 9$   
D  $n = 3 + 12 + 9$

- D** Caitlin worked 80 hours in a gift shop last month. She worked the same number of hours each day for 20 days. If she was paid \$8 per hour, which equation can be used to find  $a$ , the amount she earned each day?

- F  $(80 \div 20) + 8 = a$   
G  $(80 \div 8) + 20 = a$   
H  $(80 \div 8) \times 20 = a$   
J  $(80 \div 20) \times 8 = a$

**A** El Sr. Guzmán gastó \$28 en la ferretería. Compró papel de lija por \$3. También compró 5 brochas. Si cada brocha costó la misma cantidad, ¿qué ecuación se puede usar para encontrar  $b$ , el costo de cada brocha?

A  $b = (28 + 3) \div 5$

B  $b = (28 - 3) \times 5$

C  $b = (28 - 3) \div 5$

D  $b = (28 - 3) + 5$

**B** Lashawn compró 6 lápices a  $12\phi$  cada uno y 1 borrador a  $10\phi$ . ¿Qué ecuación se puede usar para encontrar  $c$ , el costo de estos artículos, sin incluir el impuesto?

F  $(6 \times 12) + 10 = c$

G  $(6 + 1) \times 12 = c$

H  $(6 \times 10) + 12 = c$

J  $(6 + 1) \times 10 = c$

**C** El sábado la Sra. Whiteside compró 3 paquetes de galletas. Cada paquete contenía 12 galletas. Al otro día ya se habían comido 9 de las galletas. ¿Qué ecuación se puede usar para encontrar el número de galletas,  $n$ , que no se habían comido?

A  $n = (12 - 9) \times 3$

B  $n = (3 \times 12) - 9$

C  $n = (12 \div 3) + 9$

D  $n = 3 + 12 + 9$

**D** Caitlin trabajó 80 horas en una tienda de novedades el mes pasado. Trabajó el mismo número de horas cada día por 20 días. Si fue pagada \$8 por hora, ¿qué ecuación se puede usar para encontrar  $c$ , la cantidad que ganó cada día?

F  $(80 \div 20) + 8 = c$

G  $(80 \div 8) + 20 = c$

H  $(80 \div 8) \times 20 = c$

J  $(80 \div 20) \times 8 = c$