Choose a Method

Bilal has 528 coins. He divides them among 3 jars. How many coins are in each jar?

Divide. $528 \div 3 = n$

STEP 1: Since 5 hundreds can be divided by 3, the first digit is in the hundreds place.

Divide. $3\overline{)5}$

Multiply 3×1
Subtract $5 - 3$
Compare $2 < 3$

$$\begin{array}{r} 1 \\ 3\overline{)528} \\ \underline{3} \\ 2 \end{array}$$

STEP 2:

Bring down the tens. Divide $3\overline{)22}$

Multiply 3×7
Subtract $22 - 21$
Compare $1 < 3$

$$\begin{array}{r} 17 \\ 3\overline{)528} \\ \underline{3} \\ 22 \\ \underline{21} \\ 1 \end{array}$$

STEP 3:

Bring down the ones. Divide $3\overline{)18}$

Multiply 3×8
Subtract $18 - 18$
Compare $0 < 3$

$$\begin{array}{r} 176 \\ 3\overline{)528} \\ \underline{3} \\ 22 \\ \underline{21} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

Since $n = 176$, each jar contains 176 coins.

Divide 42,168 by 6.
Divide 6 into 42 to get 7. Multiply 6 by 7 to get 42.
Subtract 42 from 42 to get 0.

Bring down the 1 to get 01.

Divide 6 into 1 to get 0. Multiply 0 by 6 to get 0.
Subtract 0 from 01 to get 1.
Bring down the 6 to get 16.

Divide 6 into 16 to get 2. Multiply 2 by 6 to get 12.
Subtract 12 from 16 to get 4.
Bring down the 8 to get 48.

Divide 6 into 48 to get 8. Multiply 8 by 6 to get 48.
Subtract 48 from 48 to get 0.

So, 42,168 ÷ 6 = 7,028.

$$\begin{array}{r} 7,028 \\ 6\overline{)42,168} \\ \underline{42} \\ 016 \\ \underline{12} \\ 48 \\ \underline{48} \\ 0 \end{array}$$

My Real Life

Ninety-nine students are going to Safa Park. The school administrator needs to accommodate them in three buses. How many students will be riding in each bus?

99 ÷ 3 = 33 students