

**Example 1** Divide.  $1.3 \overline{)0.546}$ **Step 1** Change the problem to an equivalent problem with a whole-number divisor.

$$\begin{array}{r}
 1.3 \overline{)0.546} \\
 \downarrow \quad \downarrow \\
 13 \overline{)5.46}
 \end{array}$$

**Step 2** Divide.

$$\begin{array}{r}
 0.42 \\
 13 \overline{)5.46} \\
 \underline{-52} \phantom{0} \\
 26 \\
 \underline{-26} \\
 0
 \end{array}$$

**Answer:** 0.42**Set A** Divide.

1.  $0.02 \overline{)1.456}$

2.  $0.33 \overline{)0.66}$

3.  $1.7 \overline{)0.51}$

4.  $1.9 \overline{)7.6}$

**5. Solve.** Tarik's plane took off at 7:45 A.M. and was scheduled to land at 11:20 A.M. Bad weather delayed the plane's landing by 1 hour 15 minutes. How long was Tarik's plane in the air?

6.  $1.9 \overline{)5.7}$

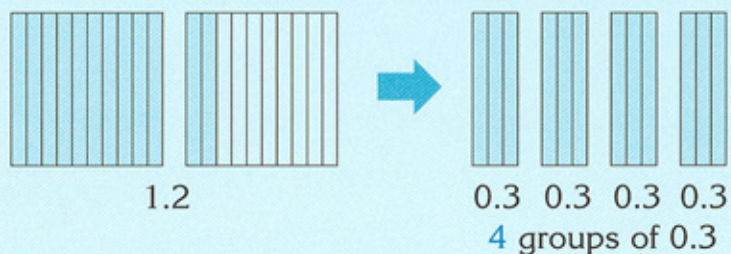
7.  $0.04 \overline{)0.20}$

8.  $1.4 \overline{)0.70}$

9.  $0.08 \overline{)0.416}$

**10. Solve.** It costs \$1.25 to wash one load of laundry. Stan set aside a total of \$16.25 for laundry. How many loads of laundry could he wash with this money?

**Example 2** Divide.  $0.3 \overline{)1.2}$



**Answer:** 4

**Set B** Divide.

1.  $0.09 \overline{)2.754}$
2.  $4.9 \overline{)0.98}$
3.  $0.16 \overline{)0.48}$
4.  $1.3 \overline{)3.9}$
5. **Solve.** The diameter of Earth is 7,920 miles. What is Earth's circumference? ( $C = \pi d$ . Use 3.14 for  $\pi$ .)
6.  $0.09 \overline{)0.36}$
7.  $1.2 \overline{)0.996}$
8.  $0.13 \overline{)0.949}$
9.  $1.8 \overline{)7.38}$
10. **Solve.** An ancient Greek container called an *amphora* had a capacity of 10.3 gallons. An ancient Roman amphora had a capacity of 6.84 gallons. How many times would the contents of one Roman amphora fit into one Greek amphora? (Round to the nearest hundredth.)

**Set C** Divide.

1.  $0.19 \overline{)0.969}$
2.  $0.12 \overline{)0.84}$
3.  $1.1 \overline{)8.8}$
4.  $1.3 \overline{)0.793}$
5. **Solve.** Greek philosopher Socrates lived from 470–399 B.C. His student, Plato, lived from 428–348 B.C. Who lived longer, and by how many years?
6.  $0.13 \overline{)9.10}$
7.  $1.2 \overline{)9.84}$
8.  $2.4 \overline{)0.048}$
9.  $0.06 \overline{)4.374}$
10. **Solve.** Sheila made a cardboard mobile with 3 triangles. One triangle is 3 inches tall and 4 inches wide. Each of the other triangles is twice as tall and twice as wide as the first triangle. How many square inches of cardboard were used?



## Set A



1.	72.8
2.	2
3.	0.3
4.	4
5.	4 hours 50 minutes
6.	3
7.	5
8.	0.5
9.	5.2
10.	13 loads

## Set B



- |     |                |
|-----|----------------|
| 1.  | 30.6           |
| 2.  | 0.2            |
| 3.  | 3              |
| 4.  | 3              |
| 5.  | 24,868.8 miles |
| 6.  | 4              |
| 7.  | 0.83           |
| 8.  | 7.3            |
| 9.  | 4.1            |
| 10. | 1.51 times     |

## Set C



- |     |                   |
|-----|-------------------|
| 1.  | 5.1               |
| 2.  | 7                 |
| 3.  | 8                 |
| 4.  | 0.61              |
| 5.  | Plato, by 9 years |
| 6.  | 70                |
| 7.  | 8.2               |
| 8.  | 0.02              |
| 9.  | 72.9              |
| 10. | 54 square inches  |