Worksheets to print out from sofatutor.com

Division with Remainders (Area Models)

$$347 \div 3 = \ ?$$

(1) **Can you share the coins?**

(2) How do we solve division problems using an area model?

(3) Can you help Mr. Squeaks divide the gems?

(4) Can you match the problems to the answers?

(5) The Treasure Chest.

(+) with many hints, answer keys, and solution approaches for all tasks

⚠ The complete package, **including all tasks, hints, solutions, and solution approaches**, is available to all subscribers of sofatutor.com
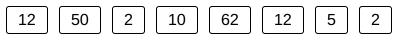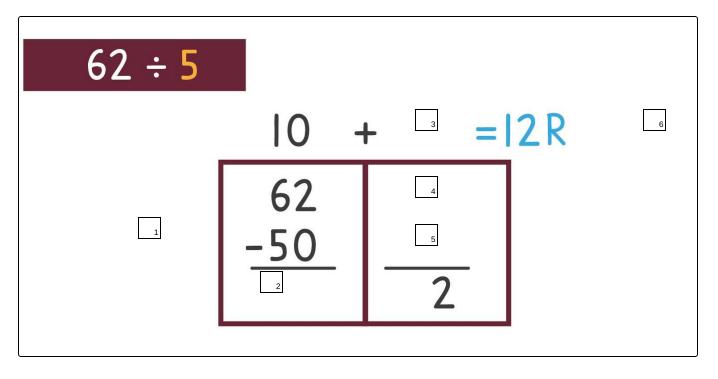
Worksheet: Division with Remainders (Area Models)
Math / Numbers and Operations / Division / Division Using Area Models / Division with Remainders (Area Models)

1
from 5

Can you share the coins?

Place the correct numbers into each box.

Mr. Squeaks is sharing 62 coins between 5 crew mates. Any that are left, Mr. Squeaks will get to keep.

Can you complete the area model below and find the answer?

| 12 | 50 | 2 | 10 | 62 | 12 | 5 | 2 |

$62 \div 5$

$$10 \quad + \quad \boxed{3} \quad = 12R \qquad \boxed{6}$$

$\boxed{1}$

$$\begin{array}{c|c} 62 & \boxed{4} \\ -50 & \\ \hline \boxed{2} & \boxed{5} \\ & 2 \end{array}$$
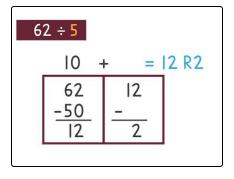
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Our hints for the tasks

1 from 5 **Can you share the coins?**
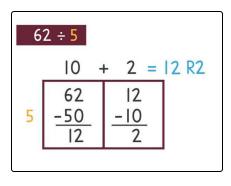
1. Hint

Which number in the equation is the **divisor**? Remember, this needs to go on the left of the model.

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2. Hint

If we subtract 50 from 62 we get **12**. What do we subtract from 12 to get 2?

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3. Hint

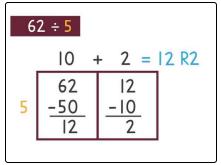We now need to figure out which number we add to 10 to make 12.

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Solutions and solution approaches for the tasks

<table>
<tr><td>

1
from 5

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Can you share the coins?

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Answer key: 1: 5 // [2+4]¹: 12 **or** 12 // [3+6]¹: 2 **or** 2 // 5: 10

¹Each answer may only be used once. The order can be freely selected.

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62 ÷ 5

10 + 2 = 12 R2

62	12
-50	-10
12	2

5

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62 ÷ 5 = 12 R 2
- First of all, we need to add the divisor, 5 to the left of the model.
- In the left hand column, we have multiplied 5 by 10 to get 50. This is then subtracted from 62 to give us **12**.
- We can then add **12** to the top of the right column. What is a multiple of 5 that is near 12? **10**. 12 - 10 = 2.
- We multiplied 5 by **2** to get 10 so 2 is placed above the right column.

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- We can then see from the right column that we are left with a remainder of **2** so we add this to the answer at the top.

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