Name: .... Class: ....
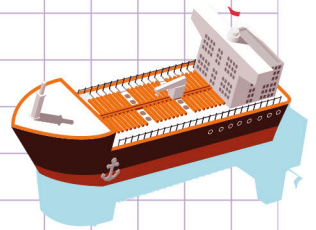
Divide 4-digit numbers by 2-digit numbers: word problems

a. A group of **4,924** people is boarding a cruise ship tour. If each cruise ship can hold **84** people, how many people will be on the last cruise ship.

b. A printing press needs to send **8,100** new textbooks to its publishing company. If each box can hold **90** textbooks, how many boxes will the printing press need?

c. Andy works at a private art gallery. Today, they managed to sell a total of **42** paintings for **$ 2,100**. How much did each painting cost if they had the same sale price?

mathskills4kids

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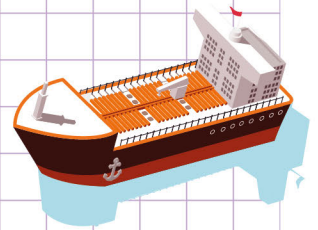
To solve this, let's divide the total number of people by the number of people each cruise ship can hold.

$4,924 \div 84$

```
        58
   84 | 4924
      - 420↓
        724
      - 672
         52
```

So, the remainder is 52

Hence 52 people will be on the last cruise ship.

b. A printing press needs to send **8,100** new textbooks to its publishing company. If each box can hold **90** textbooks, how many boxes will the printing press need?

To solve this, let's divide the total number of textbooks to be sent by the number of textbooks each box can hold.

$8,100 \div 90$

```
         90
   90 | 8100
      - 810↓
         00
      -    0
          0
```

Hence, the printing press will need 90 textbooks.

c. Andy works at a private art gallery. Today, they managed to sell a total of **42** paintings for **$ 2,100**. How much did each painting cost if they had the same sale price?

To solve this problem, let's divide the total cost of all the paintings by the number of paintings sold

$\$ 2\,100 \div 42 = \$ 50$

```
          50
   42 | 2100
      - 210↓
         00
      -    0
          0
```

So, the cost of each painting was $ 50