NAME

Module 1 Number Sense

Lesson 4 Distributive Properties

Challenge Problems 1.4

Set 1



- Use the Distributive Property to model (18)(23).
- Give an example to show that addition is not distributive over multiplication.

Set 2

Use the Distributive Property to solve the following.

- A man bought 5 suits at \$395 each and 3 shirts at \$42 each. How much did he spend altogether?
- Zeo earns \$14 an hour and works 23 hours per week. How much money does Zeo earn in 18 weeks?

Possible Answers

Set 1

1.
$$(16)(14)$$

 $(10+6)(10+4)$
 $10(10+4)+6(10+4)$
 $100+40+60+24$
 224

2.
$$(18)(23)$$

 $(10+8)(20+3)$
 $10(20+3)8(20+3)$
 $200+30+160+24$
 414

$$2 + (3 + 4) = 2 + 12 = 14$$

$$(2 + 3)(2 + 4) = (5)(6) = 30$$
so
$$2 + (3 + 4) \neq (2 + 3)(2 + 4)$$

Set 2

The man spent \$2,101.

Zeo earned \$5,796.