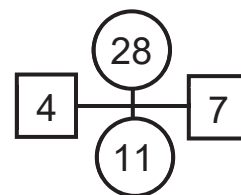
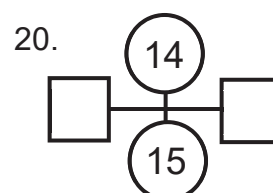
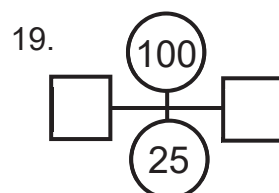
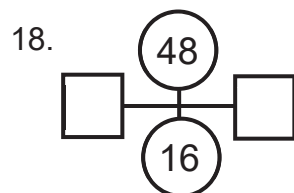
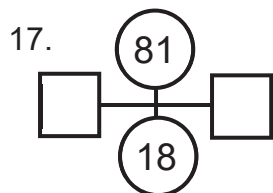
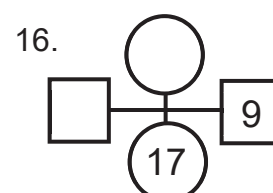
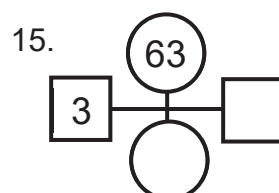
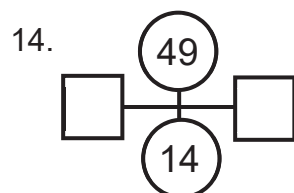
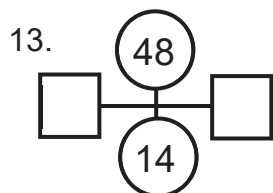
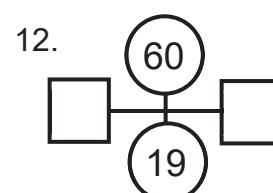
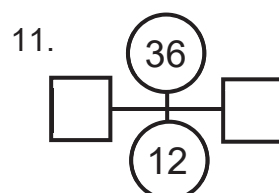
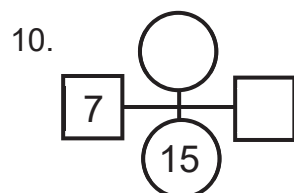
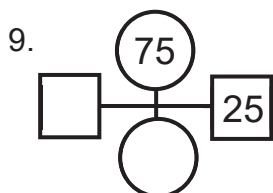
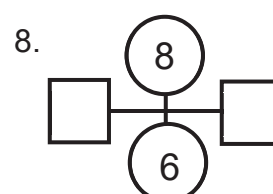
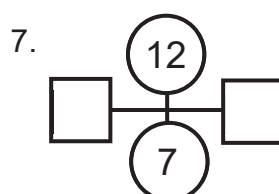
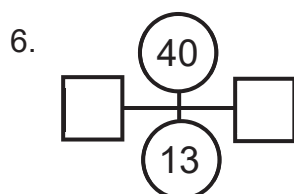
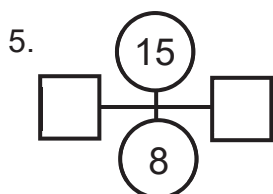
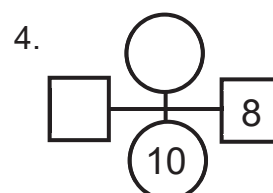
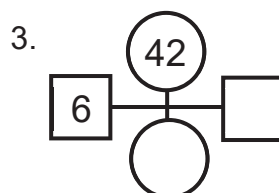
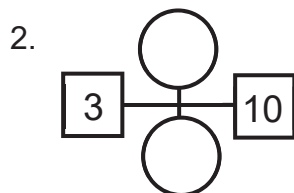
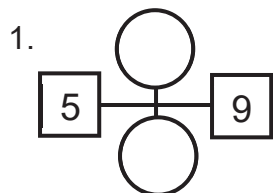


## 14. Number Ninja 3

The top circle's number equals the product of the numbers in the squares:  $28 = 4 \times 7$ . The bottom circle's number equals the sum of the numbers in the squares:  $11 = 4 + 7$ .

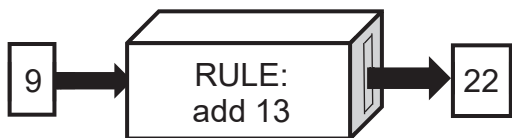


Fill in all missing numbers. When both squares are empty, put the larger of the two missing numbers in the right square.



## 30. Function Finder 6

1. The function machine adds 13. So when you input 9, the output is 22. Use the rule to complete the table.



<b>in</b>	4	9	16	21		54
<b>out</b>	17	22	29		45	

2. Complete the table and state the function machine rule.

a. RULE: \_\_\_\_\_

<b>in</b>	14	21	29	36		74
<b>out</b>	24	31	39		52	

b. RULE: \_\_\_\_\_

<b>in</b>	6	13	18	25		57
<b>out</b>	28	35	40		64	

- 3a. Complete the table.

Spencer's age	5	11	23	35		66
Amanda's age	13	19	31		52	

b. Spencer is 16. How old is Amanda?

c. Amanda is 47. How old is Spencer?

- 4a. Complete the table.

cost to make cake (\$)	6	9	15	22	28	
selling price of cake (\$)	11	14	20	27		41

b. It costs \$25 to make the cake.

What is the selling price of the cake?

c. The selling price of the cake is \$17.

How much does it cost to make the cake?

- 5a. Complete the table.

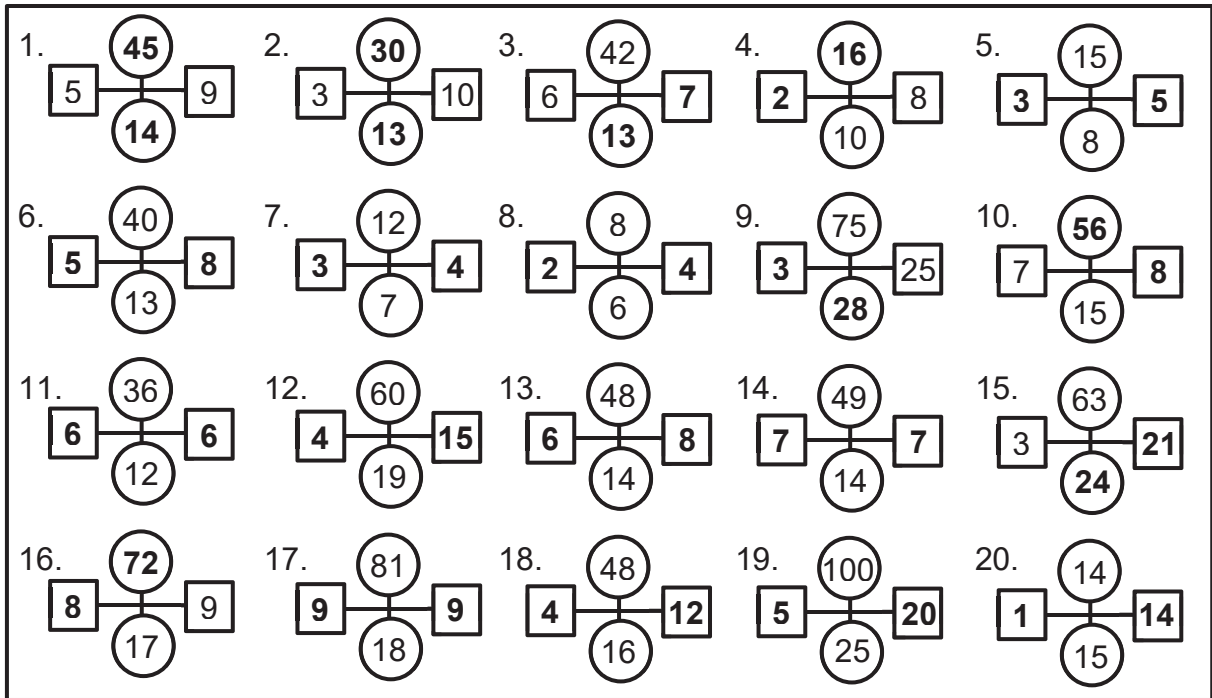
Sammy's situps	20	32	45	57	70	
Sammy's pushups	5	17	30	42		88

b. Sammy does 27 situps. How many pushups does he do?

c. Sammy does 50 pushups. How many situps does he do?

# Answers

## 14. Number Ninja 3 (p. 17)



# Answers

## 30. Function Finder 6

1.	in	4	9	16	21	<b>32</b>	54
	out	17	22	29	<b>34</b>	45	<b>67</b>

2a.	RULE: add 10						
	in	14	21	29	36	<b>42</b>	74
	out	24	31	39	<b>46</b>	52	<b>84</b>

2b.	RULE: add 22						
	in	6	13	18	25	<b>42</b>	57
	out	28	35	40	<b>47</b>	64	<b>79</b>

3a.	Spencer's age	5	11	23	35	<b>44</b>	66
	Amanda's age	13	19	31	<b>43</b>	52	<b>74</b>

Amanda is 8 years older than Spencer: when Spencer is 5, Amanda is 13, when Spencer is 11, Amanda is 19, and on.

**3b. Amanda is 24.**

Amanda is 8 years older than Spencer:  $8 + 16 = 24$ .

**3c. Spencer is 39.**

Spencer is 8 years younger than Amanda:  $47 - 8 = 39$ .

4a.	cost to make cake (\$)	6	9	15	22	28	<b>36</b>
	selling price of cake (\$)	11	14	20	27	<b>33</b>	41

The cake's selling price is \$5 more than the cost to make the cake.

**4b. The cake's selling price is \$30.**

The cake's selling price is \$5 more than the \$25 cost to make the cake:  $\$5 + \$25 = \$30$ .

**4c. The cost to make the cake is \$12.**

The cost to make the cake is \$5 less than the \$17 selling price of cake:  $\$17 - \$5 = \$12$ .

5a.	Sammy's situps	20	32	45	57	70	<b>103</b>
	Sammy's pushups	5	17	30	42	<b>55</b>	88

Each day Sammy does 15 less pushups than situps.

**5b. Sammy does 12 pushups.**

Sammy does 15 less pushups than his 27 situps:  $27 - 15 = 12$ .

**5c. Sammy does 65 situps.**

Sammy does 15 more situps than his 50 pushups:  $50 + 15 = 65$ .