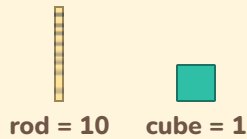


Name: _____

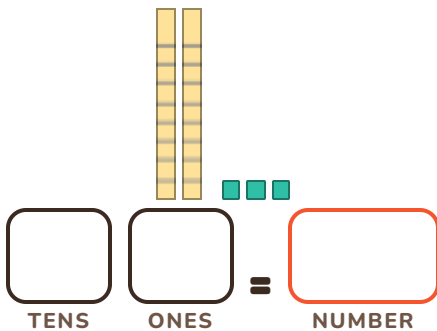
Date: _____



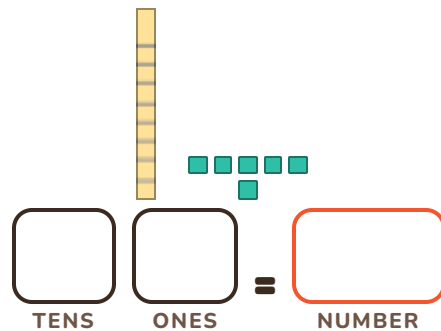
A **rod** is one ten (count its 10 little squares). A **cube** is one. **1-4**: count the rods and cubes, then write the number. **5-6**: draw the rods and cubes the customer needs.



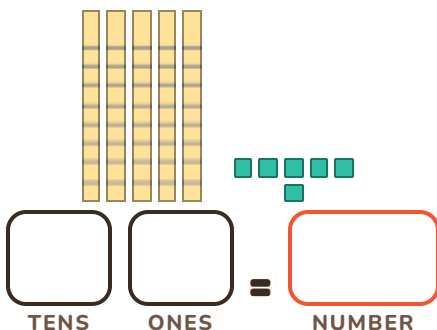
1



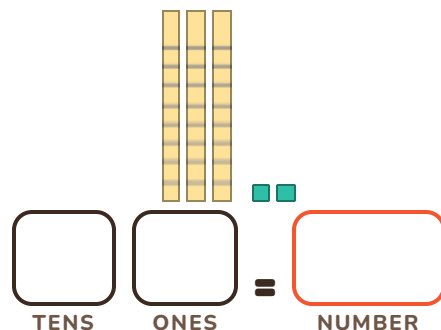
2



3



4



5


Rosie Rabbit asks the machine for **34**

Draw the rods and cubes here

34 = rods and cubes

6


Daisy Dog asks the machine for **21**

Draw the rods and cubes here

21 = rods and cubes



Name: _____

Date: _____



The customers say their numbers in **places**. **1–8**: write the number the machine should build.
9–12: break the number into tens and ones, the way Robo's sliders do.

1**6 tens and 4 ones =** **2****4 tens and 3 ones =** **3****9 tens and 3 ones =** **4****3 tens and 2 ones =** **5****9 tens and 1 one =** **6****9 tens and 5 ones =** **7****5 hundreds, 6 tens and 9 ones =****8****7 hundreds, 3 tens and 7 ones =****9****78 =** **tens and** **ones****10****85 =** **tens and** **ones****11****63 =** **tens and** **ones****12****27 =** **tens and** **ones****Bonus**

Write a number that has more ones than tens, then say it out loud in places (like "2 tens and 7 ones").

Name: _____

Date: _____



Expanded form shows what each digit is **worth**: $342 = 300 + 40 + 2$. **1–4**: write the number in expanded form. **5–10**: add the parts back together and write the number.

1

729 = + +

hundreds • tens • ones

2

496 = + +

hundreds • tens • ones

3

894 = + +

hundreds • tens • ones

4

383 = + +

hundreds • tens • ones

5

 $700 + 60 + 4 =$

6

 $300 + 80 + 2 =$

7

 $400 + 30 + 4 =$

8

 $900 + 10 + 5 =$

9

 $300 + 60 + 6 =$

10

 $700 + 10 + 9 =$ **Bonus**

Robo mixed up the order: $7 + 500 + 30 = ?$ Write the number, then write it in the usual expanded order.

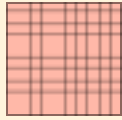
The tricky zero

Name: _____

Date: _____



When a place is **empty**, the machine still needs a **0** to hold its spot: 2 hundreds, 0 tens and 5 ones is **205**, not 25! **1-3**: read the blocks. **4-6**: write the number. **7-8**: circle the number that was said.



flat = 100

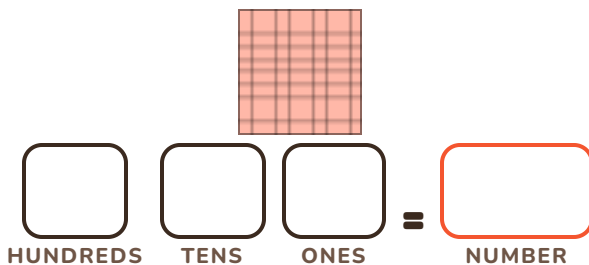


rod = 10

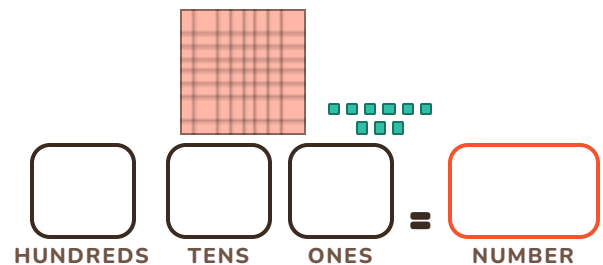


cube = 1

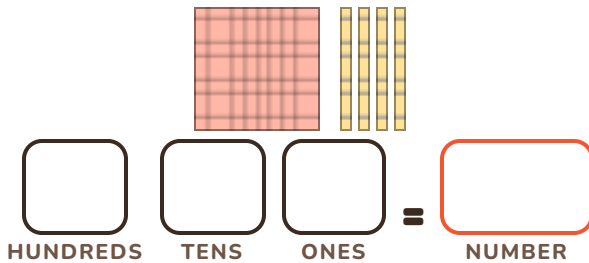
1



2



3



4

3 hundreds, 0 tens and 0 ones =

5

3 hundreds, 8 tens and 0 ones =

6

2 hundreds, 1 ten and 0 ones =

7

"three hundred seven"

307

370

37

8

"seven hundred fifty"

75

705

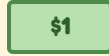
750

Name: _____

Date: _____



Money works like place value with a **decimal point**. A **dime** is one tenth of a dollar (10¢) and a **penny** is one hundredth (1¢). **1–4**: count the money and write the amount. **5–8**: break the amount into dollars, dimes and pennies. Watch for the tricky zero!



dollar = \$1.00

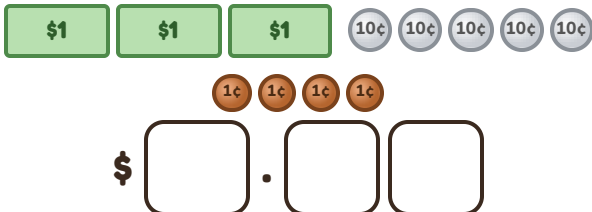


dime = \$0.10

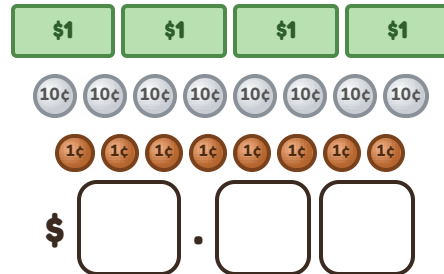


penny = \$0.01

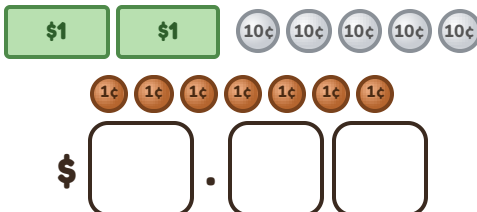
1

\$.

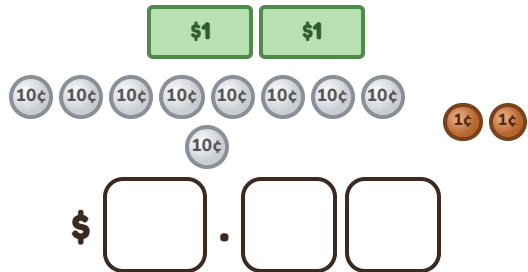
2

\$.

3

\$.

4

\$.

5

\$3.61 =
DOLLARS DIMITS PENNIES

6

\$4.55 =
DOLLARS DIMITS PENNIES

7

\$4.08 =
DOLLARS DIMITS PENNIES

8

\$9.80 =
DOLLARS DIMITS PENNIES**Bonus**

\$2.05 and \$2.50 look alike but are not the same. Which is more? Explain using dimes and pennies.

**Page 1: Read the blocks**

1. 2 tens, 3 ones = **23**
2. 1 ten, 6 ones = **16**
3. 5 tens, 6 ones = **56**
4. 3 tens, 2 ones = **32**
5. $34 = 3$ rods and **4** cubes
6. $21 = 2$ rods and **1** cube

Page 2: Tens and ones in words

1. 6 tens and 4 ones = **64**
2. 4 tens and 3 ones = **43**
3. 9 tens and 3 ones = **93**
4. 3 tens and 2 ones = **32**
5. 9 tens and 1 one = **91**
6. 9 tens and 5 ones = **95**
7. 5 hundreds, 6 tens and 9 ones = **569**
8. 7 hundreds, 3 tens and 7 ones = **737**
9. $78 = 7$ tens and **8** ones
10. $85 = 8$ tens and **5** ones
11. $63 = 6$ tens and **3** ones
12. $27 = 2$ tens and **7** ones
13. Bonus: any number whose ones digit is bigger than its tens digit, e.g. 27.

Page 3: Expanded form

1. $729 = 700 + 20 + 9$
2. $496 = 400 + 90 + 6$
3. $894 = 800 + 90 + 4$
4. $383 = 300 + 80 + 3$

5. $700 + 60 + 4 = 764$
6. $300 + 80 + 2 = 382$
7. $400 + 30 + 4 = 434$
8. $900 + 10 + 5 = 915$
9. $300 + 60 + 6 = 366$
10. $700 + 10 + 9 = 719$
11. Bonus: **537** = $500 + 30 + 7$

Page 4: The tricky zero

1. 1 hundred, 0 tens, 0 ones = **100**
2. 1 hundred, 0 tens, 9 ones = **109**
3. 1 hundred, 4 tens, 0 ones = **140**
4. 3 hundreds, 0 tens and 0 ones = **300**
5. 3 hundreds, 8 tens and 0 ones = **380**
6. 2 hundreds, 1 ten and 0 ones = **210**
7. "three hundred seven" = **307**
8. "seven hundred fifty" = **750**

Page 5: Dollars and cents

1. 3 dollars, 5 dimes, 4 pennies = **\$3.54**
2. 4 dollars, 8 dimes, 8 pennies = **\$4.88**
3. 2 dollars, 5 dimes, 7 pennies = **\$2.57**
4. 2 dollars, 9 dimes, 2 pennies = **\$2.92**
5. $\$3.61 = 3$ dollars, **6** dimes, **1** pennies
6. $\$4.55 = 4$ dollars, **5** dimes, **5** pennies
7. $\$4.08 = 4$ dollars, **0** dimes, **8** pennies
8. $\$9.80 = 9$ dollars, **8** dimes, **0** pennies
9. Bonus: **\$2.50** is more. \$2.50 is 2 dollars and 5 dimes (50¢); \$2.05 is 2 dollars, 0 dimes and 5 pennies (5¢).