

# CODING

## Book #6



### And some math...

65, \_\_\_\_, 75, 80, 85, 90,  
95, 100, 105, 110

How many centimeters in  
8.5 meters?

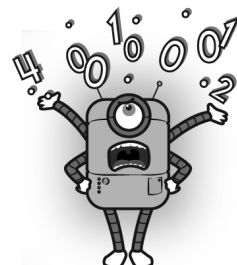
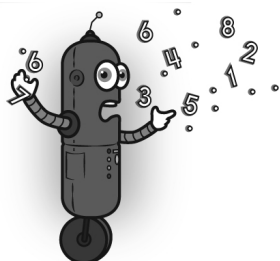
Know how many inches in  
a foot? Okay, smarty pants,  
how many inches in 4 feet?

$$108 \div 9 + 6$$

$$6\frac{6}{7} + 2\frac{4}{7}$$

How much time is it from  
9:00 a.m. to 10:25 a.m.?

for good measure!



Name: \_\_\_\_\_

If  $A = B$   
and  $B = C$ ,  
then  
 $A$  \_\_\_\_  $C$ .

$X = 25$   
 $X = X + 2$   
`print ( X )`  
What is printed?

If  $Q$  is even  
and  $X$  is even,  
then  
 $Q + X$  is

If  $A$  is divisible by 8,  
then  $A$  is a  
\_\_\_\_\_ of 8.

If  $Q$  is odd  
and  $X$  is odd,  
then  
 $Q - X$  is

If  $Q$  is even  
and  $X$  is even,  
then  
 $Q + X$  is

If  $A = B$   
and  $B = C$ ,  
then  
 $A$  \_\_\_\_  $C$ .

If  $A > B$   
and  $B = C$ ,  
then  
 $A$  \_\_\_\_  $C$ .

$X = 28$   
 $X = X + 2$   
`print ( X )`  
What is printed?

Use  $>$ ,  $<$ , or  $=$  to  
complete.  
If  $X$  is 9 more than  $Y$ ,  
and  $Y$  is less than  $Z$  then  
 $Y$  \_\_\_\_  $X$

# Hint  $*$  is multiplication.  
# and  $/$  is division.  
 $A = 13$   
 $B = 7$   
 $C = A * B$   
 $C / A =$  \_\_\_\_

$A = 11$   
 $B = 16$   
 $C = 11$   
`if (A >= C)`  
    `print(C);`  
`else`  
    `print(A)`  
What is printed?

If  $Q$  is odd  
and  $X$  is odd,  
then  
 $Q - X$  is

$X = 21$   
 $X = X + 3$   
`print ( X )`  
What is printed?

If  $A$  is divisible by 10,  
then  $A$  is a  
\_\_\_\_\_ of 10.

Name: \_\_\_\_\_



**Witch or which** food should witch use? Witch doesn't want you to know!

**Witch told Cauldron:**

```
print ("Witch is coding a stew.")
```

**Cauldron replied:**

Witch is coding a  
stew.

```
print ("She does not want Goblin  
to know how to make it!")
```

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

```
AnimalA = "worm"  
OrganA = "esophagus"  
OrganB = "brain"  
OrganC = "intestine"
```

```
print ("Add", AnimalA, OrganA)
```

A\_\_\_\_\_ \_or\_\_\_\_  
\_s\_\_\_\_\_ s

```
print ("Add", AnimalA, OrganB)
```

\_\_\_\_d w\_\_\_\_ \_ain

Name: \_\_\_\_\_

```
print ("Add", AnimalA, OrganC)
```

```
_____
_____
```

```
A = "bat"
B = "mouse"
C = "owl"
D = "pigeon"
E = "skunk"
F = "squirrel"
```

```
organ1 = "intestine"
organ2 = "heart"
organ3 = "brain"
organ4 = "bladder"
organ5 = "kidney"
organ6 = "liver"
```

```
print ("Add", E, organ6)
```

```
_____d_____s_____
```

```
print ("Add", A, organ1)
```

```
_____
```

$$-12 - 9 =$$

$$-9 + 8 =$$

$$54 \div -9 =$$

Name: \_\_\_\_\_

MyFace = "smile"

MyTeeth = "dirty"

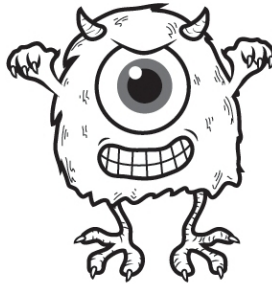
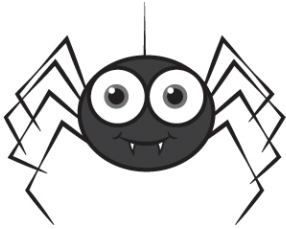
if (MyFace == "smile")

print ("Add", B, organ3)

if (MyFace == "dirty")

print ("Add", D, organ4)

print ("Who is hungry?")



zombie = 6

if (zombie &gt; 5)

print ("Zombie hungry.");

if (zombie &lt;= 5)

print ("Zombie busy.");

\_\_\_\_\_mb i\_\_\_\_\_g\_y.

monster = 8

mummy = 12

print ("Who is hungrier?")

if (monster &gt; mummy)

print ("Monster hungrier.");

if (mummy &gt; monster)

print ("Mummy hungrier.");

\_\_\_\_o\_\_\_\_

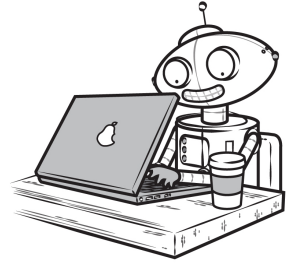
\_\_\_\_\_i\_\_\_\_\_?

\_\_\_\_\_.

Name: \_\_\_\_\_

**Guessing**

Dr. Programmer loves to type on his computer. But his darn monitor is sometimes broken. Fill in what the computer should print.

**Dr. Programmer typed:**

```
print ("Let's play a game
      of guess my number")
```

**The computer replied:**

```
_____, _____ a ____m____
____ s ____ n_____
```

```
print ("I am ready.")
```

```
A = 3
MY_GUESS = 5
if (A == MY_GUESS)
  print ("correct")
if (A < MY_GUESS)
  print ("too low")
if (A > MY_GUESS)
  print ("too high")
```

```
_____
```

```
A = 3
MY_GUESS = 2
if (A == MY_GUESS)
  print ("correct")
if (A < MY_GUESS)
  print ("too low")
if (A > MY_GUESS)
  print ("too high")
```

```
_____
```

word root **extra** can mean **beyond**      **extraterrestrial, extravagant**

Name: \_\_\_\_\_

```

A = 6
MY_GUESS = 6
if (A == MY_GUESS)
    print ("correct")
if (A < MY_GUESS)
    print ("too low")
if (A > MY_GUESS)
    print ("too high")

```

\_\_\_\_\_

```

B = 6
MY_MONEY = 8
print ("You need ",B," dollars.");
if (MY_MONEY >= B)
    print ("I have enough.")
if (MY_MONEY < B)
    print ("I need more.")

```

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

```

B = 6
MY_MONEY = 6
print ("You need ",B," dollars.");
if (MY_MONEY >= B)
    print ("I have enough.")
if (MY_MONEY < B)
    print ("I need more.")

```

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Round the decimal 0.655 to the nearest hundredth.

Estimate quickly the difference.  
5,520 - 1,400

11, 13, 15, \_\_\_\_\_, 19, 21

word root **pro** can mean **forward or for** **proceed, procession, promote**

Name: \_\_\_\_\_

```

B = 6
MY_MONEY = 3
print ("You need ",B," dollars.");
if (MY_MONEY >= B)
    print ("I have enough.")
if (MY_MONEY < B)
    print ("I need more.")

```

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

```

B = 9
MY_MONEY = 19
print ("You need ",B," dollars.");
if (MY_MONEY >= B)
    print ("I have enough.")
if (MY_MONEY < B)
    print ("I need more.")

```

$$x - 14 = 3$$

$$n + 39 = 45$$

What is the greatest common factor of 2 and 6?

The radius of a circle is 535 cm. What is the diameter of this circle?

160, 176, 192, 208, \_\_\_\_\_,

240, 256

The perimeter of a rectangle is 24 cm. The longer side is 9 cm. How long is the shorter side?

How many inches are in 2 feet?

\_\_\_\_\_ inches

Choose the word that best completes the sentence.

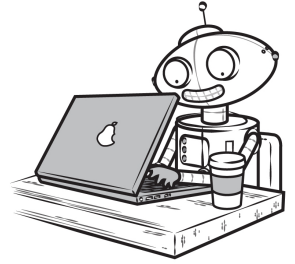
I would love to go to the Acme Chemistry Fair, (to/too).



Name: \_\_\_\_\_

**Randomizer Rumbles**

Dr. Programmer loves to type on his computer. But his darn monitor is sometimes broken. Fill in what the computer should print.

**Dr. Programmer typed:**

```
# Dr. Programmer needs to pick
# a random number from 1 to 9.
# I wonder what the computer will pick!
A = Random(1,9)
print ("A number from 1 to 9? I pick", A, ".")
```

**The computer replied:**

A number from  
1 to 9? I pick  
9 .

```
# Hint: You need to be the computer and
# PICK the random number!
A = Random(1,9)
print ("I pick", A, ".")
```

— — — — —

```
A = Random(1,9)
print (A)
```

1

```
A = Random(1,9)
print (A)
```

—

```
# Hint: Now a number from 100 to 999
A = Random(100,999)
print (A)
```

102

```
A = Random(100,999)
print (A)
```

— — —

Name: \_\_\_\_\_

```
A = Random(100,999)
print (A)
```

\_\_\_\_\_

```
A = Random(100,999)
print (A)
```

```
A = Random(1,9)
print (A)
```

—

```
A = Random(1,9)
print (A)
```

```
A = Random(10,99)
print ("I can't wait until
      I am ",A,"years old.")
```

I can't wait  
until I am 89  
years old.

```
A = Random(10,99)
print ("I can't wait until
      I am ",A,"years old.")
```

— ————— —————  
 ————— — ——— ———  
 ————— —————

How many centimeters in  
8.6 meters?

It was 2 degrees below  
zero in the morning. By  
afternoon the temperature  
rose 26 degrees. How  
warm was it?

Know how many inches in  
a foot? Okay, smarty pants,  
how many inches in 5 feet?

Name: \_\_\_\_\_

```
A = Random(1,5)
print ("A = ",A)
B = Random(6,9)
print ("B = ",B)
C = A + B
print ("C = ",C)
```

```
— — —
— — —
— — —
```

```
A = Random(1,5)
print ("A = ",A)
B = Random(6,9)
print ("B = ",B)
C = A + B
print ("C = ",C)
```

```
A = Random(1,5)
B = Random(6,9)
C = A + B
print (C)
```

1 2

```
A = Random(1,5)
B = Random(6,9)
C = A + B
print (C)
```

```
A = Random(1,5)
B = Random(6,9)
C = A + B
print (C)
```

Name: \_\_\_\_\_

`A = Random(1,5)``print ("A = ",A)``B = Random(6,9)``print ("B = ",B)``C = A + B``print ("C = ",C)``C = C + 1``print ("C = ",C)``D = A + B``print ("D = ",D)`

— — —

— — —

— — — —

— — — —

— — — —

`A = Random(55,56)``print ("A = ",A)`

— — — —

$$8 \div \frac{1}{7}$$

$$9 + 3 + 11$$

$$11 \times 4 + 4 \times 1$$

$$\frac{2}{5}, \frac{3}{5}, \frac{4}{5}, 1, 1\frac{1}{5},$$

$$1\frac{2}{5}, 1\frac{3}{5}, 1\frac{4}{5}, 2,$$

$$\text{—————}, 2\frac{2}{5}, 2\frac{3}{5},$$

$$2\frac{4}{5}, 3, 3\frac{1}{5}, 3\frac{2}{5}$$

Circle the three numbers  
whose product  
equals 216.

6      9      4

3      9      4

The area of a rectangle  
is  $60 \text{ cm}^2$ . What could  
the length of the 4 sides  
be?

Name: \_\_\_\_\_

Seven leprechauns (Kaitlyn, Kylie, Daniel, Brittany, Madison, Ashley, and Emma) are each different heights (2 feet and 6 inches, 3 feet and 7 inches, 3 feet and 1 inch, 2 feet and 2 inches, 3 feet and 9 inches, 3 feet and 4 inches, and 2 feet and 6 inches).

Figure out how tall each leprechaun is.

1. Daniel is taller than both Kylie and Emma.
2. Kylie is not shorter than Emma.
3. Emma is taller than Ashley.
4. Ashley is taller than Brittany and shorter than Kylie.
5. Brittany is not taller than Daniel.
6. Kaitlyn is the tallest leprechaun.
7. Madison is taller than Emma.
8. Emma is taller than Brittany.
9. Daniel is not shorter than Madison.
10. Madison is taller than Kylie and taller than Brittany.

Kaitlyn is \_\_\_\_\_ tall.

Kylie is \_\_\_\_\_ tall.

Daniel is \_\_\_\_\_ tall.

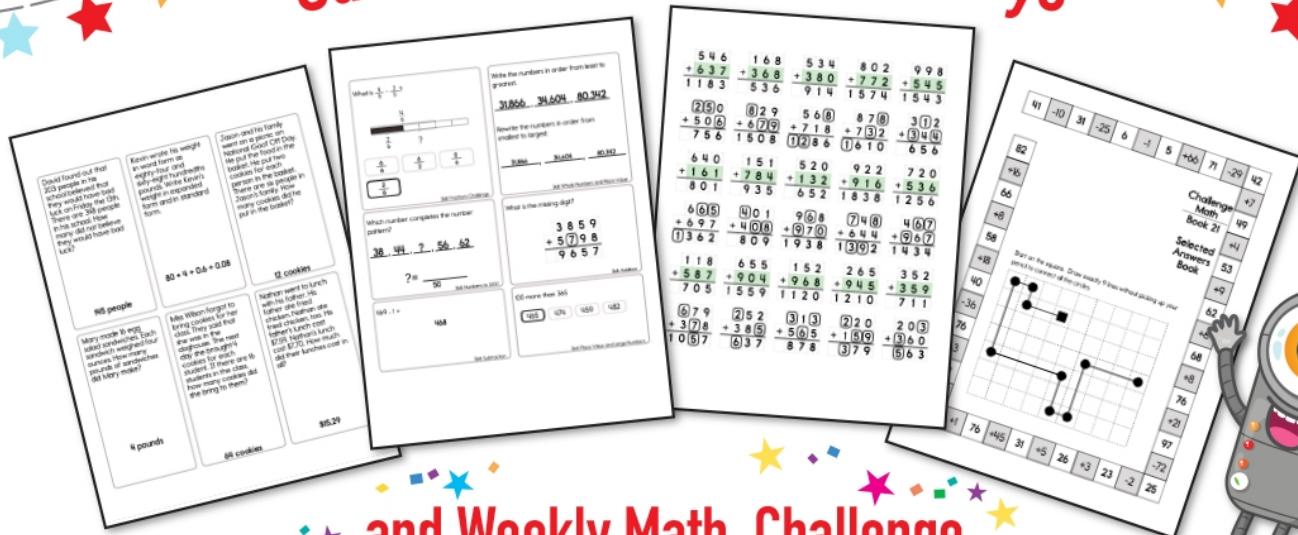
Brittany is \_\_\_\_\_ tall.

Madison is \_\_\_\_\_ tall.

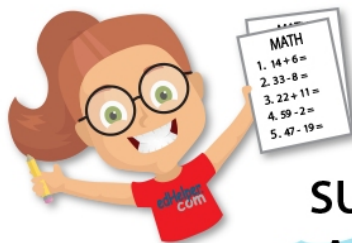
Ashley is \_\_\_\_\_ tall.

Emma is \_\_\_\_\_ tall.

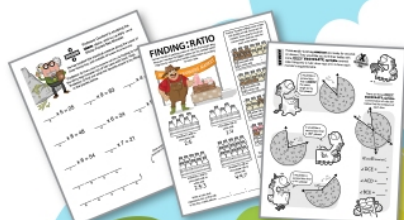
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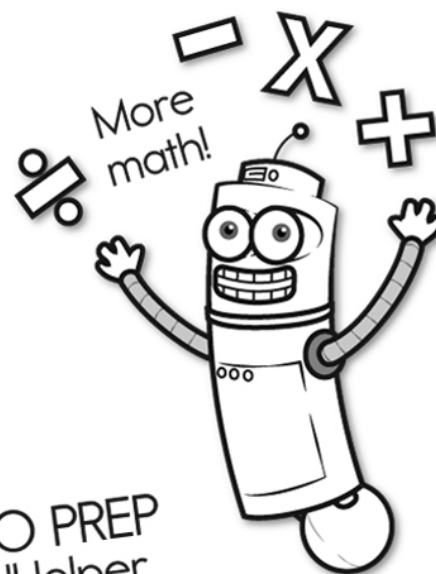
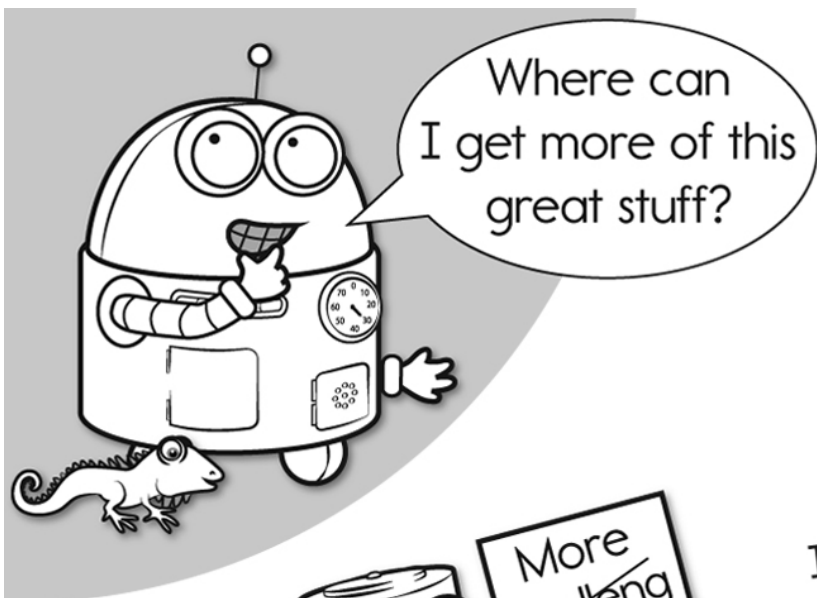
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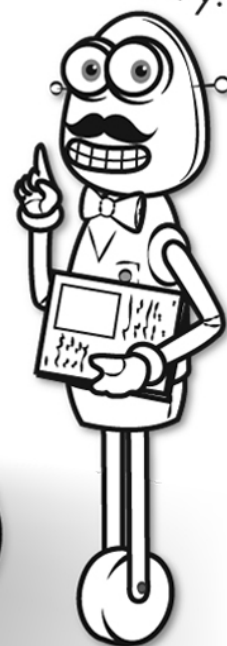


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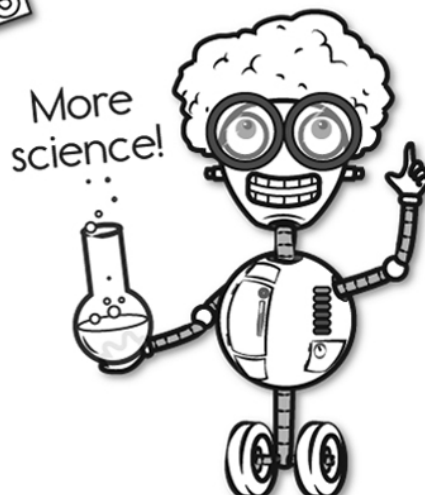
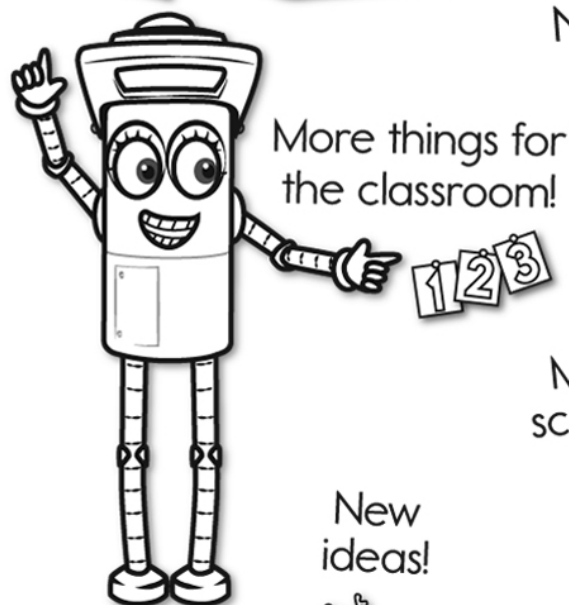
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