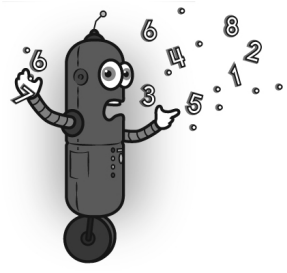
CODING
Book #5

And some math...

Each side of a regular pentagon is 64.5 centimeters. What is the perimeter?	0.4 (0.9 (0.4 x 2)) =	4 + (48 ÷ 4) - 36 ÷ 9 =
The letter V has an unknown value. If you multiply V by twelve, the product is four. What value does V have?	12 - 1 + 2 x 11 + 3	0.1 (0.5 (0.1 + 8)) =

for good measure!



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Name: _____

Patterns

Dr. Programmer typed:

```
# Trying to make a pattern.
# Does this work?
A = 6
B = 4
C = A + B
D = C + B
E = D + B
print ("This pattern counts by ", B)
print ("The pattern is ",A,", ",B,", ",C);
```

The computer replied:

```
This pattern counts by 4
The pattern is 6 , 4 , 10
```

```
A = 7
B = 3
C = A + B
D = C + B
E = D + B
print ("This pattern counts by ", B)
print ("The pattern is ",A,", ",B,", ",C);
```

```
_____ _________
_______ ___ _
___ _________ ___
_ _ _ _ ___
```

```
A = 8
B = 4
C = A + B
D = C + B
E = D + B
print ("The pattern is ",A,", ",B,", ",C);
```

```
The pattern is 8 , 4 , 12
```

4 is what % of 10?

$\frac{5}{20} = \frac{1}{?}$

Find 91% of 190.

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```
A = 6
B = 4
C = A + B
D = C + B
E = D + B
print ("The pattern is ",A,", ",B,", ",C);
```

___ p_t____ _s_
. _ . _0

```
A = 8
B = 2
C = A + B
D = C + B
E = D + B
print ("The pattern is ",A,", ",B,", ",C);
```

The __t__rn __ _
. _ . __

```
ADDTO = 2
STARTNUM = 9
NUM2 = STARTNUM + ADDTO
NUM3 = NUM2 + ADDTO
NUM4 = NUM3 + ADDTO
print (STARTNUM,", ",NUM2,", ",NUM3,", ",NUM4)
```

9 . 11 . 13 .
15

```
ADDTO = 4
STARTNUM = 5
NUM2 = STARTNUM + ADDTO
NUM3 = NUM2 + ADDTO
NUM4 = NUM3 + ADDTO
print (STARTNUM,", ",NUM2,", ",NUM3,", ",NUM4)
```

_ . 9 . 1_ .
17

(0.2)(0.15)

(9 + 5 + 10) =

$\frac{4}{22} \div \frac{7}{11} =$

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Name: _____

```
ADDTO = 3
STARTNUM = 8
NUM2 = STARTNUM + ADDTO
NUM3 = NUM2 + ADDTO
NUM4 = NUM3 + ADDTO
print (STARTNUM,", ",NUM2,", ",NUM3,", ",NUM4)
```

— — —— — —— —

——

$$\begin{array}{r} 47 \\ +\ 25 \\ \hline \end{array}$$

Find the difference between 453 and 153.

$$\begin{array}{r} 91 \\ +\ 134 \\ \hline \end{array}$$

$(5 + 14) + 9 = 2(v + 7)$

What is the value of v?

$2 \times 28 \div 4$

$4 \times 4 \times 4 \times 4 \times 4 = Z^y$

What is the value of Z and y?

$\frac{3}{7} \times \frac{2}{12}$

Rewrite $\frac{17}{25}$ as a decimal.

t - 10 + t = 38
What is the value of t?

Write as an algebraic expression.

$99\frac{1}{15}$ multiplied by the sum of h and t

The angles in a quadrilateral measure 111°, 95°, 83°, and g°. What is the value of g?

2, u, 0, 4, 2, u, 0, 4, 2, u, 0, 4, _____, u, 0, 4

Name: _____

Now that Dr. Programmer knows how to multiply, add, and subtract, it's time for some division.

10 divided by 2 is written 10 / 2 on his computer.

Dr. Programmer typed:	**The computer replied:**
print (8 / 2)	4
print (9 * 6)	__ __
print (21 / 7)	__
print (45 + 44)	

3 + (8 x 8) - 5 x 1

Simplify.

$\frac{7{,}200}{16{,}800}$ =

529 ÷ 10

Convert $31\frac{6}{7}$ to an improper fraction.

12.3, 11.4, 9.8, 33.5, 54.7, 98, 186.2, 338.9, 623.1, _____, 2110.2, 3881.5, 7139.9

What is the area of a rectangle with a length of 50 centimeters and a width that is $\frac{1}{5}$ the length?

Name: _____

Shelby, Jessica, Natalie, and Olivia each own a car. One has a pink car, one has a yellow car, one has a violet car, and one has a white car.

Figure out the color of each person's car.

1. Jessica doesn't like white cars.
2. Olivia doesn't like violet cars.
3. Olivia borrowed the white car, because Natalie was using her car.
4. Olivia borrowed the white car, because Jessica was using her car.
5. Jessica's favorite colors are pink and violet. Her car is one of her favorite colors.
6. Shelby's favorite colors are violet and pink. Her car is one of her favorite colors.
7. Olivia doesn't like pink cars.
8. Shelby doesn't like violet cars.
9. Natalie's favorite colors are pink and white. Her car is one of her favorite colors.
10. Olivia borrowed the pink car, because Shelby was using her car.

Shelby has a(n) _____ car.

Jessica has a(n) _____ car.

Natalie has a(n) _____ car.

Olivia has a(n) _____ car.

Sketch an acute angle named ∠CDE.

Sketch an obtuse angle named ∠EFG.

What kind of angle has a measure of between 90° and 180°?

word root **cent** can mean **hundred** **centennial**

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Name: _____

Greater and Less Than

Dr. Programmer typed:	The computer replied:

FirstNumber = 28
SecondNumber = 25
if (FirstNumber>=SecondNumber)
  print ("Greater than or equal")
else:
  print ("Less than");
	Greater than or equal

FirstNumber = 29
SecondNumber = 24
if (FirstNumber>=SecondNumber)
  print ("Greater than or equal")
else:
  print ("Less than");
	_____ _____ __ _____

FirstNumber = 42
SecondNumber = 51
if (FirstNumber<=SecondNumber)
  print ("Less than or equal")
else:
  print ("Greater than");	

FirstNumber = 21
SecondNumber = 22
if (FirstNumber>=SecondNumber)
  print ("Greater than or equal")
else:
  print ("Less than");	

Sarah rolls a die. What is the chance of her rolling a 2? _____	18 ÷ 6 =	10 x 3 = _____

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Name: _____

```
MYGRADE = 100
if (MYGRADE>=90)
   print ("Nice score!")
if (MYGRADE<90)
   print ("Keep trying")
```

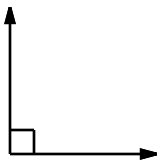
Nice score!

```
MYGRADE = 86
if (MYGRADE>=90)
   print ("Nice score!")
if (MYGRADE<90)
   print ("Keep trying")
```

```
MYGRADE = 91
if (MYGRADE>=90)
   print ("You got an A")
if (MYGRADE<90) and (MYGRADE>=80)
   print ("Not Bad, at least in 80s")
if (MYGRADE<80)
   print ("Um.  Maybe study next time?")
```

You got an A

```
MYGRADE = 90
if (MYGRADE>=90)
   print ("You got an A")
if (MYGRADE<90) and (MYGRADE>=80)
   print ("Not Bad, at least in 80s")
if (MYGRADE<80)
   print ("Um.  Maybe study next time?")
```



What kind of angle is this?

What kind of angle is this?

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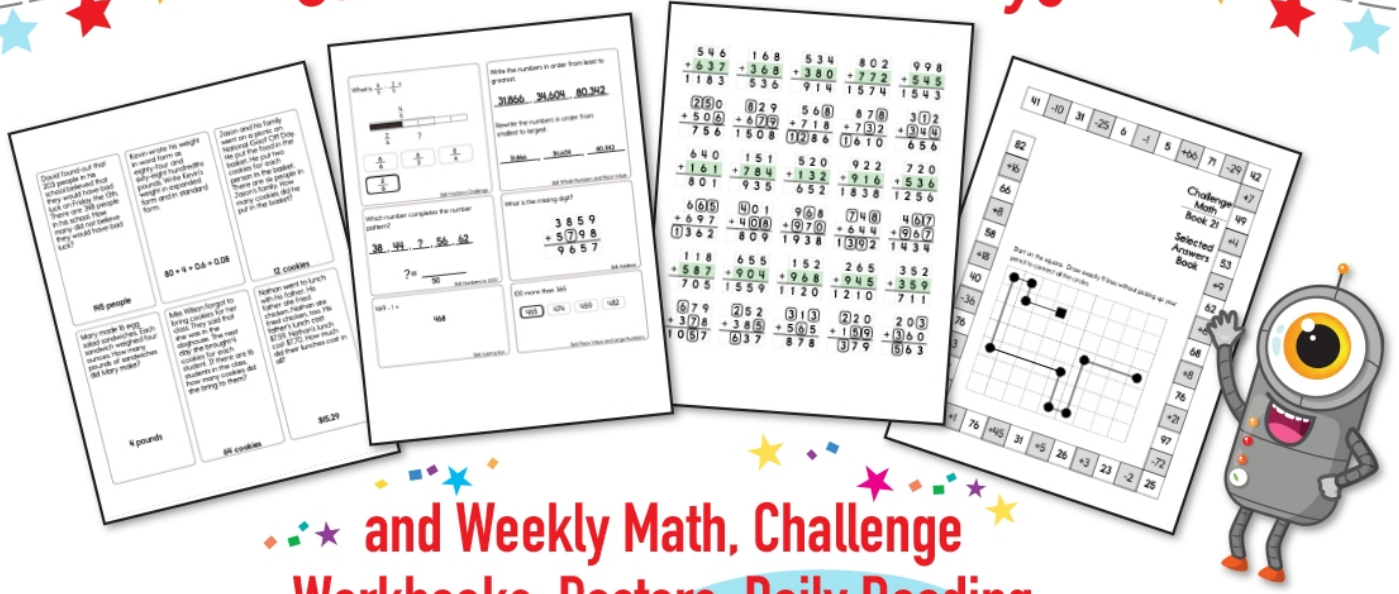

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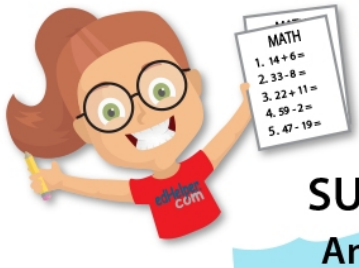

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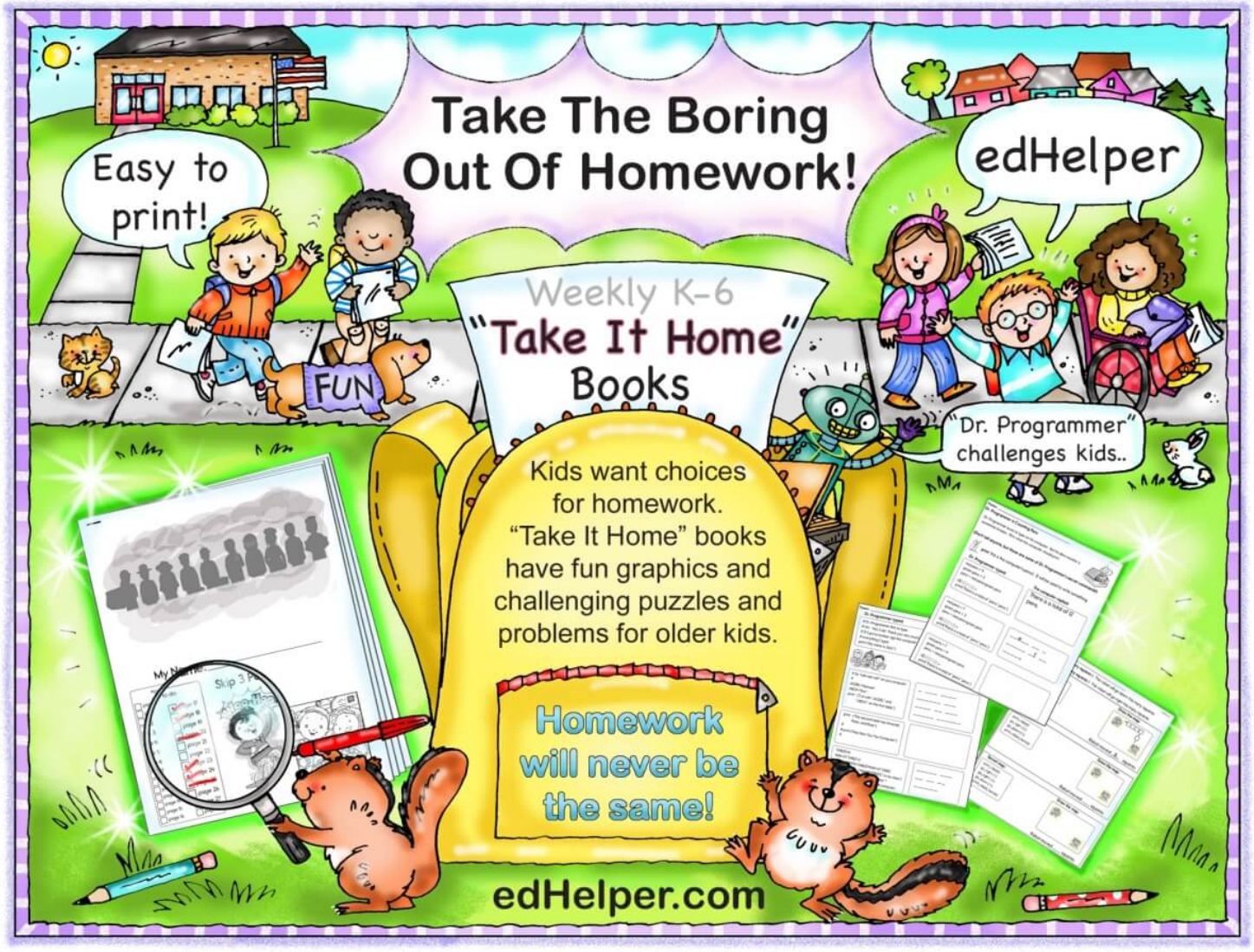
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