

Algebra Basic Concepts - Intro

1 What would the bottom meal cost?

$$6 \text{ 🍗} = \text{CHECK 12}$$

$$1 \text{ 🍗} = \text{CHECK ?}$$

A



B



2 Which equations represent what these meals cost

$$8 \text{ 🥗} = \text{CHECK 8}$$

$$1 \text{ 🥗} = \text{CHECK ?}$$

3 Which equations represent what these meals cost

$$4 \text{ 🍔} + 2 \text{ 🍟} = \text{CHECK 22}$$

$$6 \text{ 🍔} = \text{CHECK 24}$$

$$1 \text{ 🍟} = \text{CHECK ?}$$

4 Which equations represent what these meals cost

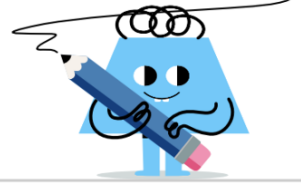
$$2 \text{ 🍝} + 4 \text{ 🍪} = \text{CHECK 20}$$

$$2 \text{ 🍝} = \text{CHECK 4}$$

$$1 \text{ 🍝} + 1 \text{ 🍪} = \text{CHECK ?}$$

5 Which equations represent what these scales are showing





Algebra Basic Concepts - Intro

6 What would the bottom meal cost?

$$1 \text{ pizza} = \text{CHECK } 5$$

$$3 \text{ pizza} + 3 \text{ salad} = \text{CHECK } 18$$

$$1 \text{ salad} = \text{CHECK } ?$$

A



B



7 What would the bottom meal cost?

$$1 \text{ fries} + 2 \text{ burger} = \text{CHECK } 9$$

$$7 \text{ fries} = \text{CHECK } 21$$

$$1 \text{ fries} + 1 \text{ burger} = \text{CHECK } ?$$

A



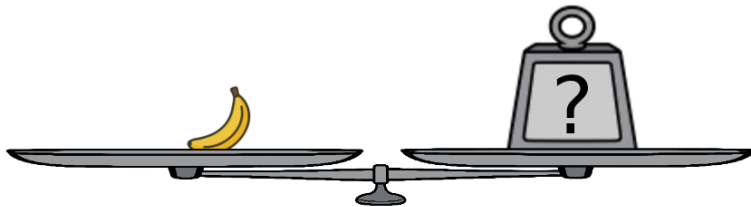
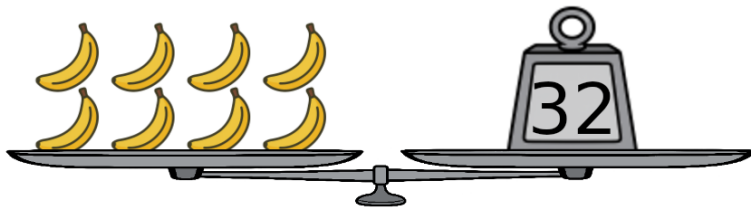
B





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8 What weight would balance the bottom scale?



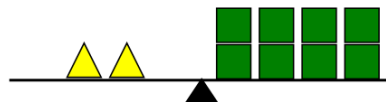
A



B



9 Which shapes will balance the bottom scale?



A



B



C



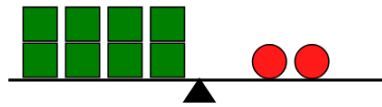
D





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10 Which shapes will balance the bottom scale?



A



B



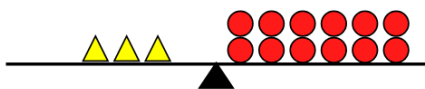
C



D



11 Which shapes will balance the bottom scale?



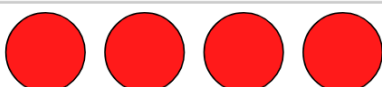
A



B



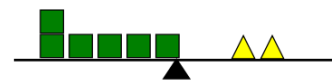
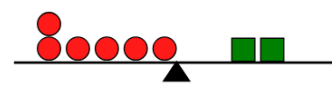
C



D



12 Which shapes will balance the bottom scale?



A



B



C



D



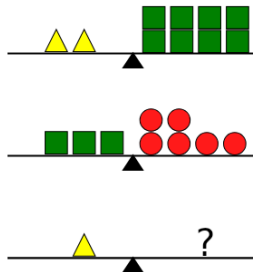
E



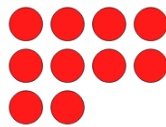


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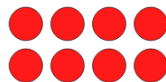
13 Which shapes will balance the bottom scale?



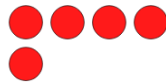
A



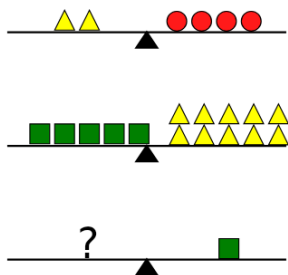
B



C



14 Which shapes will balance the bottom scale?



A



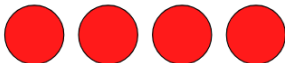
B



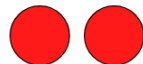
C



D



E



15 What number can be put in the circle to make this equation correct?

$$\bigcirc + 6 = 11$$

A

$$\bigcirc = 7$$

B

$$\bigcirc = 3$$

C

$$\bigcirc = 8$$

D

$$\bigcirc = 2$$

E

$$\bigcirc = 6$$

F

$$\bigcirc = 5$$

16 What number can be put in the circle to make this equation correct?

$$5 \times \bigcirc = 45$$

A

$$\bigcirc = 12$$

B

$$\bigcirc = 6$$

C

$$\bigcirc = 10$$

D

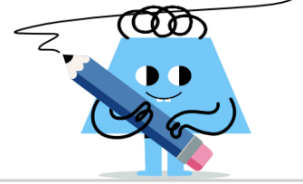
$$\bigcirc = 9$$

E

$$\bigcirc = 8$$

F

$$\bigcirc = 11$$



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- 17** What number can be put in the circle to make this equation correct?

$$\bigcirc + 3 = 9$$

A $\bigcirc = 9$

B $\bigcirc = 7$

C $\bigcirc = 6$

D $\bigcirc = 4$

E $\bigcirc = 8$

F $\bigcirc = 3$

- 18** What number can be put in the circle to make this equation correct?

$$\frac{\bigcirc}{2} = 6$$

A $\bigcirc = 11$

B $\bigcirc = 13$

C $\bigcirc = 12$

D $\bigcirc = 14$

E $\bigcirc = 10$

F $\bigcirc = 15$

- 19** What common math function does showing 9 and m together mean?

$$9m$$

A $9 \times m$

B $9 - m$

C $9 + m$

D 9^m

E $\frac{9}{m}$

F m^9

- 20** What common math function does showing 9 and m with a dot between them mean?

$$9 \cdot m$$

A $9 - m$

B 9^m

C $\frac{9}{m}$

D $9 \times m$

E m^9

F $9 + m$

- 21** Find the equation that best represents this sentence

r is the sum of six and y

A $6 \times r = y$

B $y + r = 6$

C $6 - r = y$

D $6 + r = y$

E $6 + y = r$

F $y - 6 = r$

- 22** Find the equation that best represents this sentence

p and m together are equal to q

A $m + p = q$

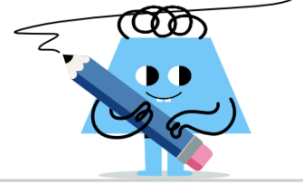
B $m \times q = p$

C $m + q = p$

D $p + q = m$

E $m - p = q$

F $p - m = q$

**Algebra Basic Concepts - Intro**

23 Find the equation that best represents this sentence

r is the result of dividing eleven by x

A $\frac{11}{x} = r$

B $\frac{x}{r} = 11$

24 Find the equation that best represents this sentence

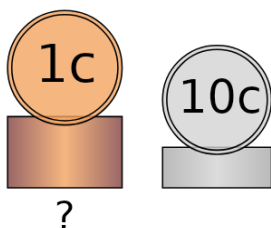
w divided by r is equal to p

A $\frac{p}{w} = r$

B $\frac{w}{r} = p$

25 Some coins have a total value of \$0.26. There are 4 more Pennies than Dimes. How many Pennies are there?

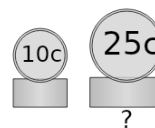
\$0.26



- | | | |
|------|------|------|
| A 13 | B 12 | C 10 |
| D 6 | E 8 | |

26 Some coins have a total value of \$1.20. There are 5 more Dimes than Quarters. How many Quarters are there?

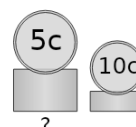
\$1.20



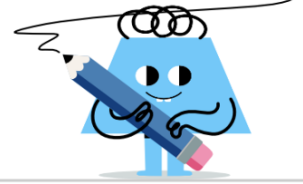
- | | |
|---|----|
| A | 2 |
| B | 1 |
| C | 5 |
| D | 10 |

27 Some coins have a total value of \$0.20. There are 2 times as many Nickels than Dimes. How many Nickels are there?

\$0.20



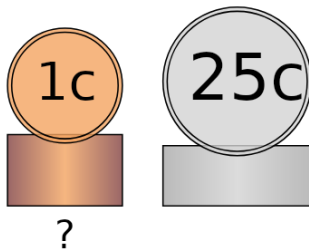
- | | |
|---|----|
| A | 2 |
| B | 3 |
| C | 11 |
| D | 4 |



Algebra Basic Concepts - Intro

- 28** Some coins have a total value of \$1.11. There are 12 times as many Pennies than Quarters. How many Pennies are there?

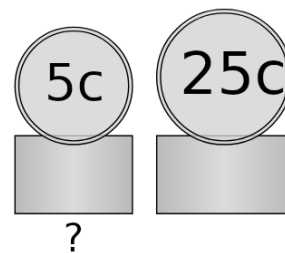
\$1.11



A 30	B 36	C 39
D 48	E 18	

- 29** Some coins have a total value of \$1.20. There are the same number of Nickels and Quarters, and only those coins. How many Nickels are there?

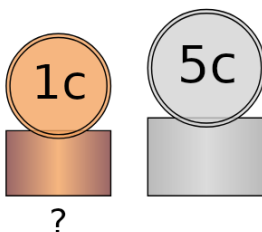
\$1.20



A 6	B 3	C 4
D 2	E 10	

- 30** Some coins have a total value of \$0.60. There are the same number of Pennies and Nickels, and only those coins. How many Pennies are there?

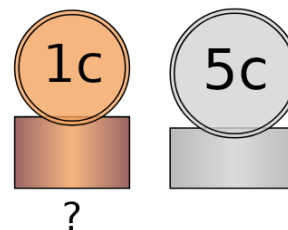
\$0.60



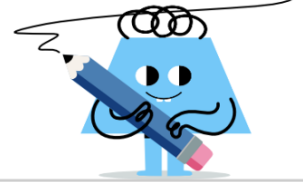
A 15	B 4	C 3
D 10	E 17	

- 31** Some coins have a total value of \$0.09. There are 1/4 as many Nickels as Pennies. How many Pennies are there?

\$0.09



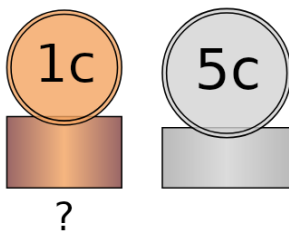
A 2	B 10	C 7
D 6	E 4	



Algebra Basic Concepts - Intro

- 32** Some coins have a total value of \$0.39. There are $\frac{1}{8}$ as many Nickels as Pennies. How many Pennies are there?

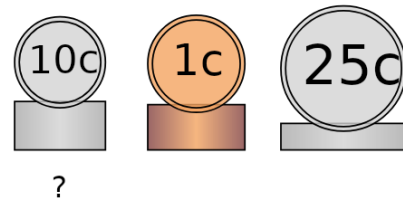
\$0.39



A	20	B	24	C	40
D	28	E	26		

- 33** Some coins have a total value of \$0.57. There are 1 more Dimes than Pennies and 1 more Pennies than Quarters. How many Dimes are there?

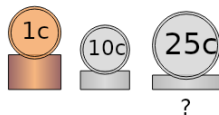
\$0.57



A	3	B	4	C	12
D	11	E	10		

- 34** Some coins have a total value of \$0.88. There are 5 more Pennies than Dimes and 1 more Dimes than Quarters. How many Quarters are there?

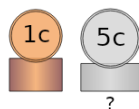
\$0.88



A	11
B	5
C	8
D	2

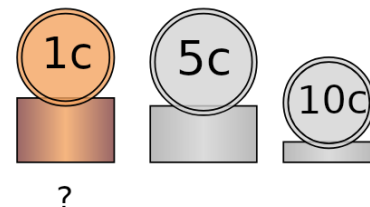
- 36** Some coins have a total value of \$0.11. There are 5 more Pennies than Nickels. What equations would help us solve?

\$0.11

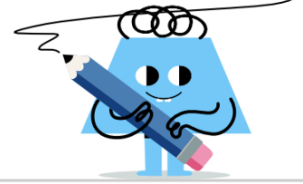


- 35** Some coins have a total value of \$0.24. There are 2 times as many Pennies than Nickels and 2 times as many Nickels than Dimes. How many Pennies are there?

\$0.24



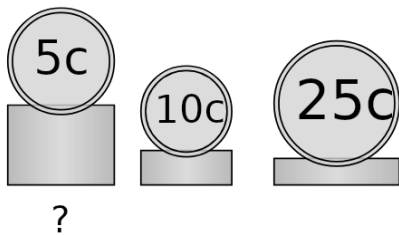
A	1	B	5	C	4
D	9	E	8		



Algebra Basic Concepts - Intro

- 37** Some coins have a total value of \$1.15. There are 4 times as many Nickels than Dimes and 3 times as many Dimes than Quarters. How many Nickels are there?

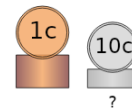
\$1.15



A	7	B	9	C	12
D	5	E	3		

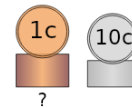
- 38** Some coins have a total value of \$0.28. There are 4 times as many Pennies than Dimes. What equations would help us solve?

\$0.28



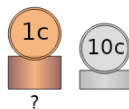
- 39** Some coins have a total value of \$0.33. There are the same number of Pennies and Dimes, and only those coins. What equations would help us solve?

\$0.33



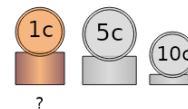
- 40** Some coins have a total value of \$0.14. There are $\frac{1}{4}$ as many Dimes as Pennies. What equations would help us solve?

\$0.14



- 41** Some coins have a total value of \$0.29. There are 1 more Pennies than Nickels and 2 more Nickels than Dimes. What equations would help us solve?

\$0.29



- 42** Some coins have a total value of \$1.30. There are 2 times as many Nickels than Dimes and 2 times as many Dimes than Quarters. What equations would help us solve?

\$1.30

