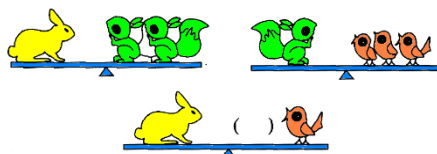
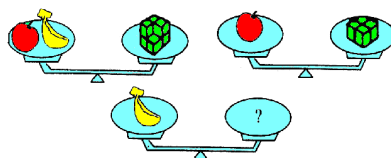


GEP-PRACTICE TESTS-EQUAL REPLACEMENT

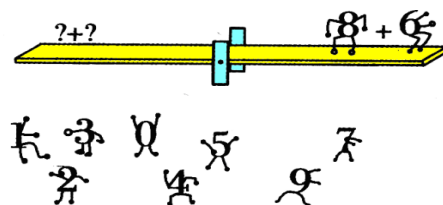
【1】 Look at the following picture and answer how many birds on the right can balance the seesaw.



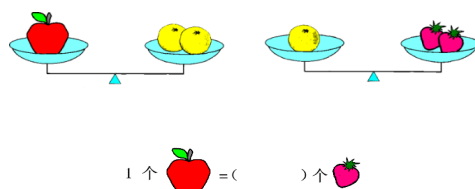
【2】 In the following picture, how many cubes should be put in the third plate to balance the scale?



【3】 In the following picture, ten brothers 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 are playing seesaw. 8 and 6 are on one side, which two brothers should sit on the other side to balance the seesaw?



【4】 One apple is equal to _____ strawberry(strawberries).



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【5】Fruit brothers form many different image&text formulas and every fruit represents a number. Can you guess which number do they represent respectively?

$$\text{pear} + \text{pear} + \text{pear} = 10-1$$

$$\text{pear} = (\quad)$$

$$12 + \text{apple} + \text{apple} = 20$$

$$\text{apple} = (\quad)$$

$$\text{watermelon} = \text{peach} + \text{peach} + \text{peach} + \text{peach}$$

$$\text{peach} = 5 \quad \text{watermelon} = (\quad)$$

$$\text{strawberry} + \text{strawberry} - \text{strawberry} = 15+10$$

$$\text{strawberry} = (\quad)$$

【6】Which number do the following flowers represent respectively?

$$\text{blue flower} + \text{red flower} = 12$$

$$\text{red flower} = \text{blue flower} + \text{blue flower} + \text{blue flower}$$

$$\text{red flower} = (\quad)$$

$$\text{blue flower} = (\quad)$$

【7】One day, Teacher Dog wants to select some members in the Animal School to join in the Math Contest. Squirrel is very happy to come. Teacher Dog says, “Let me examine you. If you can get the right answers of the following problems, I will let you in.”

$$\text{green pepper} + 15 = 20$$

$$\text{green pepper} + \text{red pepper} = 15$$

$$\text{green pepper} = (\quad)$$

$$\text{red pepper} = (\quad)$$

$$\text{yellow triangle} + \text{yellow triangle} + \text{pink star} = 14$$

$$\text{pink star} + \text{pink star} + \text{yellow triangle} + \text{yellow triangle} = 18$$

$$\text{yellow triangle} = (\quad)$$

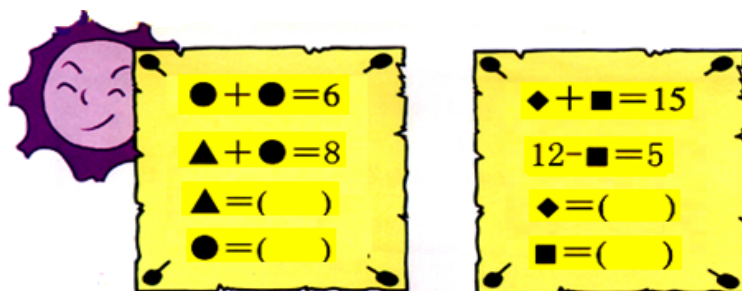
$$\text{pink star} = (\quad)$$

Squirrel observes the problems for some time and says, “What did you write, Teacher?” Teacher Dog says, “Hah, it seems that you need to study image&text formula hard. Welcome to your next challenge.” Dear students, can you get the right answers of the problems above?



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【8】 The following symbols represent a number respectively, and the same symbol represents the same number. Which numbers do they represent respectively?



【9】 According to the following formulas, do you know which numbers do



represent respectively?

$$\begin{aligned} \text{cube} + \text{sphere} &= 10 \\ \text{cylinder} + \text{cube} &= 8 \\ \text{cylinder} + \text{cylinder} &= \text{sphere} \\ \text{cube} &= () \quad \text{sphere} = () \quad \text{cylinder} = () \end{aligned}$$

【10】 According to the following formulas, can you figure out which numbers do \triangle , \bigcirc , \square represent respectively?

$$\begin{aligned} \triangle + \bigcirc &= 5 \\ \bigcirc + \square &= 4 \\ \square + \triangle &= 3 \\ \triangle &= () \quad \bigcirc = () \quad \square = () \end{aligned}$$



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【11】 Which numbers do the following graphics represent respectively?

(1) $\bullet - \blacksquare = 9$

$6 + \blacksquare = 8$

$\bullet = (\quad)$

$\blacksquare = (\quad)$

(2) $\bullet + \bullet = 8$

$\triangle + \bullet = 9$

$\bullet = (\quad)$

$\triangle = (\quad)$

(3) $\triangle + \blacksquare = 8$

$\triangle = \blacksquare + \blacksquare + \blacksquare$

$\triangle = (\quad)$

$\blacksquare = (\quad)$

【12】 Figure out the numbers that the following graphics represent.

(1) $\triangle + \triangle = 18$

$\star + \bigcirc = 13$

$\triangle + \bigcirc = 15$

$\triangle = (\quad)$

$\bigcirc = (\quad)$

$\star = (\quad)$

(2) $\blacksquare + \blacksquare + \triangle + \triangle = 14$

$\triangle + \triangle + \blacksquare = 10$

$\triangle = (\quad)$

$\blacksquare = (\quad)$

【13】 According to the three following formulas, can you figure out the numbers that \bullet , \triangle , \blacksquare represent respectively?

$11 - 4 = \bullet$



$\bullet - 5 = \triangle$

$\bullet + \triangle = \blacksquare$

$\bullet = (\quad) \quad \triangle = (\quad) \quad \blacksquare = (\quad)$



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【14】 and  are good friends, and each of them represents a number respectively. Do you know the numbers that they represent respectively?

$$\begin{aligned} \text{alien} - \text{pineapple} &= 6, \quad \text{alien} + \text{pineapple} = 12 \\ \text{alien} &= (\quad); \quad \text{pineapple} = (\quad) \end{aligned}$$

【15】The weight of 1 elephant is equal to the weight of 4 bulls, and the weight of 1 bull is equal to the weight of 3 horses. Therefore, how many horses' weight is equal to the weight of 1 elephant?

【16】The weight of 1 pig is equal to the weight of 8 rabbits, and the weight of 1 rabbit is equal to the weight of 2 cocks. Therefore, how many cocks' weight is equal to the weight of 1 pig?

【17】We have known that the price of 1 hamburger is equal to the price of 2 ice-creams, and the price of 1 ice-cream is equal to the price of 3 cups of milk:

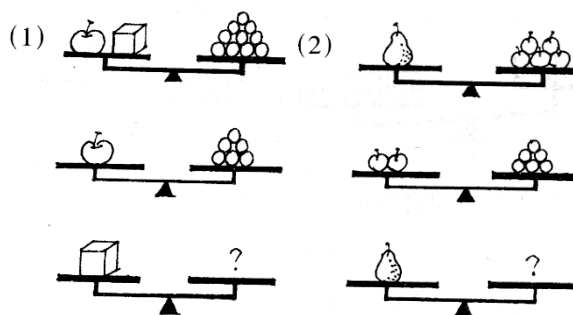
Question: (1) How many hamburgers can we buy with the money of buying 60 cups of milk?



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(2) How many cups of milk can we buy with the money of buying 60 hamburgers?

【18】 How many glass balls should be put in the third plate to balance the scale?

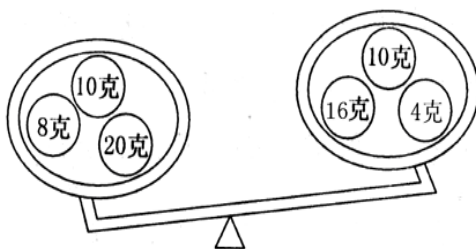


【19】 The scale isn' t balanced. But there aren' t any another weights besides the weights on the scale. Can you move the weights on the scale to balance the scale?



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【20】 Can you move the weights on the scale to balance the scale?



【21】 Can you move the weights on the scale to balance the scale?



【22】 If the price of 1 notebook is equal to the price of 5 erasers, and the price of 4 pencil-boxes is equal to the price of 40 erasers, we have known the price of 1 notebook is 3 yuan, so what's the price of 1 pencil-box?



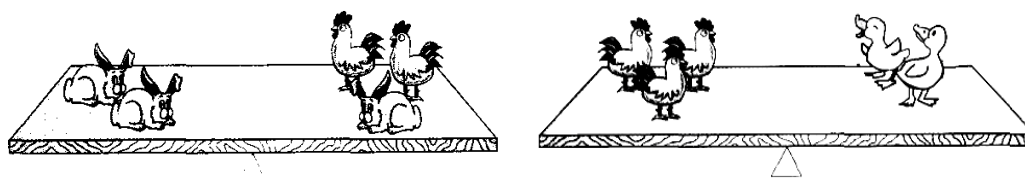
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【23】 If we can use 20 rabbits to exchange 2 sheep, 9 sheep to exchange 3 pigs, and 8 pigs to exchange 2 heads of cattle, how many rabbits can we exchange with 1 head of cattle?

【24】 The weight of 1 bottle of coke is equal to the weight of 1 cup of tea and 1 cup of milk. The weight of 2 cups of milk is equal to the weight of 1 cup of tea. Therefore, how many cups of milk weigh the same as 1 bottle of coke?

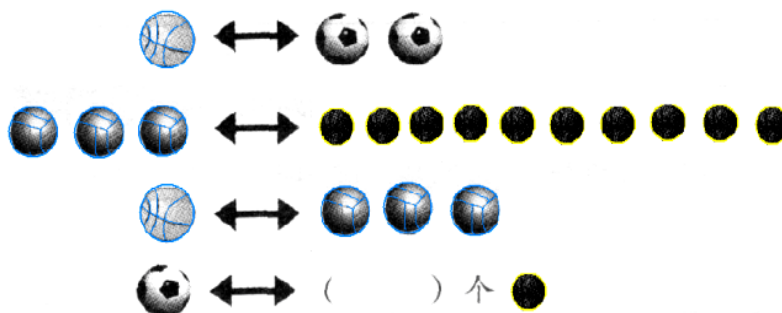
【25】 If the weight of 1 monkey is equal to the weight of 3 cats, and the weight of 3 dogs is equal to 9 cats, now 1 monkey weighs 3 kilograms, so how many kilograms does 1 dog weigh?

【26】 Observe the following picture and find out which animal is heavier?



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【27】How many rubber balls' price is equal to 1 football?



【28】If the weight of 1 watermelon is equal to the weight of 2 cantaloupes, the weight of 1 cantaloupe is equal to the weight of 8 apples, and the weight of 2 apples is equal to the weight of 3 persimmons, how many persimmons' weight is equal to the weight of 1 watermelon?

【29】If the weight of 2 rabbits is equal to the weight of 6 chickens, the weight of 3 kangaroos is equal to the weight of 4 rabbits, how many chickens weigh the same as 1 kangaroo?



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【30】 If 1 monkey weighs 4 kilograms, the weight of 1 monkey is equal to the weight of 2 rabbits, and the weight of 2 rabbits is equal to the weight of 4 kittens, what's the weight of 1 rabbits and 1 kitten?

【31】 $\star + \blacksquare = 24$, $\blacksquare + \bullet = 30$, $\bullet + \star = 36$. $\blacksquare =$ _____ $\bullet =$ _____ $\star =$ _____.

【32】 There are 720 storybooks and science books in the library, and we have known that storybooks are 160 more than science books. What's the number of storybooks and science books respectively?



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