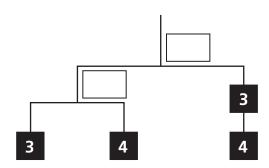
Introducing Mobiles

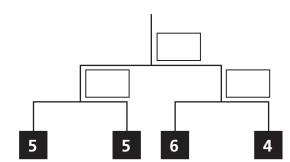
Write yes or no at each arm of the mobile to show if it is balanced. Write the total weights.

0

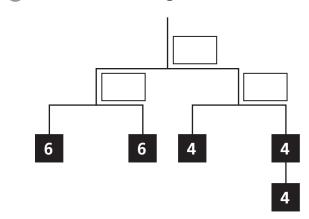
Total Weight: _____



Total Weight: _____

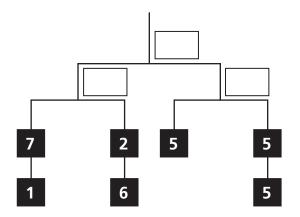


Total Weight: _____



4

Total Weight: _____





Test Prep

5 Which group shows equivalent numbers?

A.
$$\frac{5}{2}$$
, $2\frac{5}{10}$, $2\frac{1}{2}$, 2.05

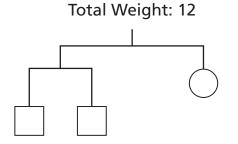
C.
$$1\frac{2}{3}$$
, $1\frac{6}{9}$, 1.23, $\frac{15}{9}$

B.
$$3\frac{1}{5}$$
, $3\frac{5}{25}$, 3.2, $\frac{16}{5}$

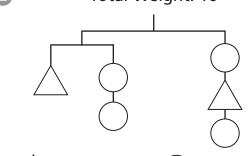
D. 4.025,
$$4\frac{25}{100}$$
, $\frac{17}{4}$, $4\frac{1}{4}$

Balancing Mobiles

Martina makes mobiles that balance perfectly! Find the weights of each shape in these mobiles so they all balance.

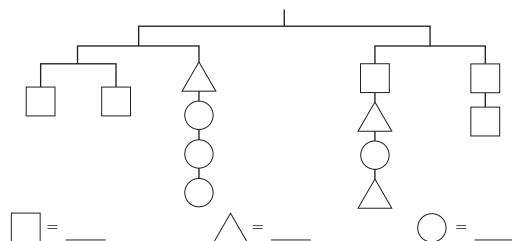


Total Weight: 16



B

Total Weight: 40





Test Prep

4 Suki earns the same amount of money (x) each weekday for doing chores. If she does her chores every weekday without forgetting, she gets an extra amount (y) when she gets paid. Which expression shows how much money she can make in a week?

- **A.** 7x + 7y
- **B.** 7x + y
- **C.** 5x y
- **D.** 5x + y

Equations for Mobiles

Circle equations that agree with each mobile. Then write the weight of each shape.

 \triangle weight = T \bigcirc weight = H

weight = C weight = S

Total Weight: 24

2T = S 2C = T

$$2C = T$$

$$3C = S 2T + S = 3C$$

$$2S = H + C$$
 $H + C = S$

$$H + C = S$$

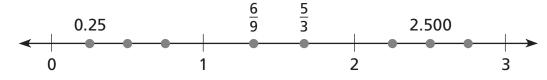
$$S = 2T + H$$

$$S = 2T + H$$
 $2C + 2H = 2S$



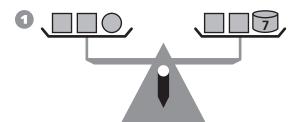
Test Prep

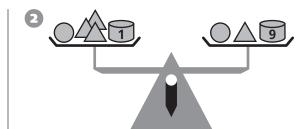
3 Which point is incorrectly labeled on the number line? What is a correct label for the point? Explain how you know.



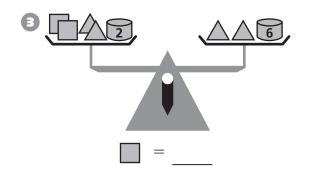
Balance Puzzles

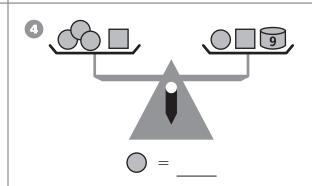
Solve these balance puzzles.



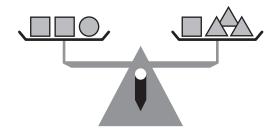


$$\triangle$$
 =





5 Write an equation for this puzzle. Use *t* for triangle, *c* for circle, and s for square.



Test Prep

6 Which shows the prime factorization product of the prime factors of 80?

A.
$$2 \times 2 \times 4 \times 5$$

C.
$$2 \times 2 \times 2 \times 5$$

B.
$$2 \times 2 \times 3 \times 5$$

D.
$$2 \times 2 \times 2 \times 2 \times 5$$

Number Tricks

Maxie invented this number trick.

1 Complete the chart, picking a starting number for yourself.

Words	Diagram	Shorthand	Number
Pick a number.	Š	N	
Double it.			
Add 7.			
Multiply by 3.			
Subtract 11.			
Divide by 2.			

Barry said his final result was 26. Find his starting number,				
	and explain how you found it.			



Test Prep

Carlos practices piano for 35 minutes every day. How much time will he spend practicing in the 31 days of May? Explain how you found your answer.

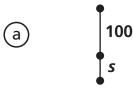
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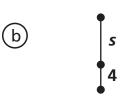
Making Diagrams

Match the situation to the diagram that illustrates it.

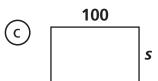
1 Steven has stilts that make him seem 4 feet taller than he really is!



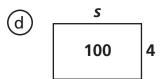
Boxes of Lovitt's Lemon Cookies have four rows of cookies in them. There are 100 cookies in a box.



A football field is 100 yards long and many yards wide.



Pavarti walked 100 yards along a straight road, stopped to pet a cat, then walked a little further.



5 Draw a diagram that illustrates this situation.

Karl likes to bowl. He remembers that a lane is 42 inches wide, but he forgets how long the lane is.



Test Prep

© Edmund is 5 years older than Felicia and 6 years older than Gil. If *E* represents Edmund's age, *F* represents Felicia's age, and *G* represents Gil's age, which equation is NOT true?

A.
$$E = G + 6$$

C.
$$G = E - 6$$

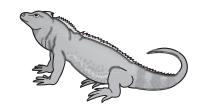
B.
$$F = G + 1$$

D.
$$F = E + 5$$

Equations for Stories



Jackie went to the pet store to look at the iguanas and birds.



1 She noticed the animals had 24 feet all together. Complete the table to show the possible combinations of birds and iguanas.

Birds	0			
Iguanas				

2 If there are also 18 eyes, how many of each animal was there?

On another day, there were B birds and I iguanas.

- Write an equation that gives the number of eyes, E, for the birds and iguanas.
- 4 Write an equation that gives the number of feet, F.

Test Prep

5 This rectangular prism is made of 1 cm cubes. What is its volume? Explain how you found the volume.

