

Fill in the circle for the correct answer.

Solve.

*Show your work.*

1. A worker at the art store puts 280 paint brushes in 8 bins. Each bin has the same number of brushes. How many paint brushes are in each bin?

(A) 30                      (C) 40  
(B) 35                      (D) 45

2. There are 8 stickers in each package. If there are a total of 944 stickers, how many packages of stickers are there?

(F) 118  
(G) 113  
(H) 108  
(K) 103

3. There are 98 boxes of pencils at the store. There are 29 more boxes of chalk than pencils. There are 6 times as many boxes of crayons as chalk. Which shows how many boxes of crayons there are?

(A)  $98 + 29 = 117$ ;  $6 \times 117 = 702$ ; 702 boxes of crayons  
(B)  $98 + 29 = 117$ ;  $6 \times 117 = 662$ ; 662 boxes of crayons  
(C)  $98 + 29 = 127$ ;  $6 \times 127 = 722$ ; 722 boxes of crayons  
(D)  $98 + 29 = 127$ ;  $6 \times 127 = 762$ ; 762 boxes of crayons

4. Luke has 86 blue marbles and 45 orange marbles. He shares the marbles equally among himself and 2 friends. He keeps the leftover marbles for himself. Which shows how many marbles Luke has?

*Show your work.*

- (F)  $86 + 45 = 121$ ;  $121 \div 3$  is 40 R1; 40 marbles  
(G)  $86 + 45 = 121$ ;  $121 \div 3$  is 40 R1; 41 marbles  
(H)  $86 + 45 = 131$ ;  $131 \div 3$  is 43 R2; 43 marbles  
(K)  $86 + 45 = 131$ ;  $131 \div 3$  is 43 R2; 45 marbles
5. A game store manager receives 520 computer games. The manager puts 28 games in a rack at the front of the store. He arranges the rest equally on 6 shelves. How many games are on each shelf?
- (A)  $520 - 28 = 492$ ;  $492 \div 6 = 82$ ; 82 games  
(B)  $520 - 28 = 492$ ;  $492 \div 6 = 72$ ; 72 games  
(C)  $520 - 28 = 402$ ;  $402 \div 6 = 67$ ; 67 games  
(D)  $520 - 28 = 402$ ;  $402 \div 6 = 61$ ; 61 games
6. Four friends bought a tent for \$244 and sleeping bags for \$276. If they share the cost equally, how much will each friend pay?
- (F)  $\$244 + \$276 = \$520$ ;  $\$520 \div 4 = \$103$ ; \$103  
(G)  $\$244 + \$276 = \$420$ ;  $\$420 \div 4 = \$105$ ; \$105  
(H)  $\$244 + \$276 = \$520$ ;  $\$520 \div 4 = \$130$ ; \$130  
(K)  $\$244 + \$276 = \$420$ ;  $\$420 \div 4 = \$150$ ; \$150

Which estimate can be used to determine the most reasonable quotient?

7.  $7 \overline{)439}$

- (A)  $400 \div 10 = 40$                       (C)  $420 \div 7 = 60$   
(B)  $450 \div 9 = 50$                       (D)  $400 \div 5 = 80$

8.  $4 \overline{)1,764}$

Ⓕ  $1,000 \div 5 = 200$

Ⓗ  $1,600 \div 4 = 400$

Ⓖ  $1,500 \div 5 = 300$

Ⓚ  $1,800 \div 3 = 600$

9.  $6 \overline{)3,128}$

Ⓐ  $3,000 \div 10 = 300$

Ⓒ  $3,500 \div 5 = 700$

Ⓑ  $3,000 \div 6 = 500$

Ⓓ  $4,000 \div 5 = 800$

Use any method to solve.

10.  $6 \overline{)744}$

Ⓕ  $107 \text{ R}2$

Ⓖ  $114$

Ⓗ  $124$

Ⓚ  $127 \text{ R}2$

11.  $9 \overline{)926}$

Ⓐ  $102 \text{ R}8$

Ⓑ  $102 \text{ R}9$

Ⓒ  $120 \text{ R}8$

Ⓓ  $120 \text{ R}9$

12.  $8 \overline{)8,344}$

Ⓕ  $1,005 \text{ R}4$

Ⓖ  $1,040 \text{ R}4$

Ⓗ  $1,043$

Ⓚ  $1,403$

13.  $3 \overline{)470}$

Ⓐ  $190$

Ⓑ  $156 \text{ R}2$

Ⓒ  $153 \text{ R}1$

Ⓓ  $150$

14.  $4 \overline{)1,403}$

Ⓕ  $300 \text{ R}3$

Ⓖ  $320 \text{ R}3$

Ⓗ  $325 \text{ R}3$

Ⓚ  $350 \text{ R}3$

15.  $2 \overline{)5,752}$

Ⓐ  $2,876$

Ⓑ  $2,826$

Ⓒ  $2,376$

Ⓓ  $2,326$

16.  $7 \overline{)7,433}$

Ⓕ  $1,060 \text{ R}3$

Ⓖ  $1,061 \text{ R}6$

Ⓗ  $1,601 \text{ R}3$

Ⓚ  $1,601 \text{ R}6$

17.  $5 \overline{)9,189}$

- (A) 1,031 R4      (B) 1,037 R4      (C) 1,817 R4      (D) 1,837 R4

**Solve.***Show your work.*

18. Dasha has 149 balloons to put in party bags. She puts 3 balloons in each bag. Which shows how many bags Dasha needs, and how many balloons will be left over?

- (F)  $149 \div 3$  is 49 R2; 49 bags; 2 balloons left over  
(G)  $149 \div 3$  is 48 R2; 48 bags; 1 balloon left over  
(H)  $149 \div 3$  is 46 R1; 46 bags; 1 balloon left over  
(K)  $149 \div 3$  is 43; 43 bags; no balloons left over

19. A shop manager orders 32 boxes of scented candles. Each box contains 48 candles. Which shows how many candles the shop manager orders in all?

- (A)  $32 \times 48 = 1,426$ ; 1,426 candles  
(B)  $32 \times 48 = 1,436$ ; 1,436 candles  
(C)  $32 \times 48 = 1,526$ ; 1,526 candles  
(D)  $32 \times 48 = 1,536$ ; 1,536 candles

20. Some hobby store workers are shipping 187 boxes of model cars and 243 boxes of model airplanes. They ship 8 boxes of models in each carton. Which shows the least number of cartons they will need?

- (F)  $187 + 243 = 430$ ;  $430 \div 8$  is 53 R6; 53 cartons  
(G)  $187 + 243 = 430$ ;  $430 \div 8$  is 53 R6; 54 cartons  
(H)  $187 + 243 = 420$ ;  $420 \div 8$  is 42 R2; 42 cartons  
(K)  $187 + 243 = 420$ ;  $420 \div 8$  is 42 R2; 43 cartons