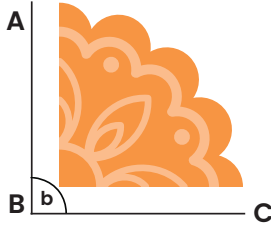


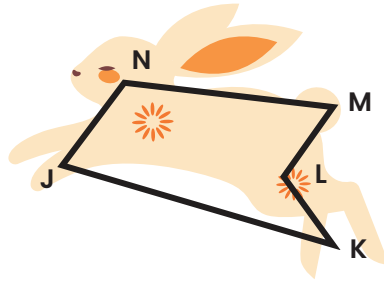
1 Name the angle.



$\angle b = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2 Mark the following angles a, b, and c inside the figure.

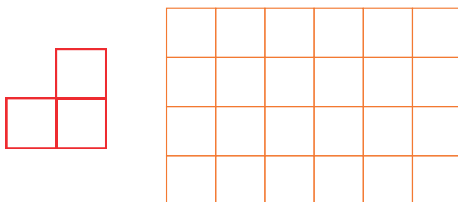
- (a) $\angle LMN = \angle a$
- (b) $\angle JKL = \angle b$
- (c) $\angle JNM = \angle c$



3 An empty bag has a mass of 60 g. It has a mass of 980 g when it is filled with marbles. If each marble has a mass of 8 g, how many marbles are there in the bag?

4 Benny and Casey are playing a card game at the family reunion. Each of 1,000 cards has a different number from 0 to 999. Benny takes all the cards with a ones, a tens, or a hundreds digit greater than 5. The other cards are Casey's. How many of the cards does Benny take?

5 Use 8 small figures on the left to cover the figure on the right. In how many ways can you do this?



650,000+
Happy parents
and students

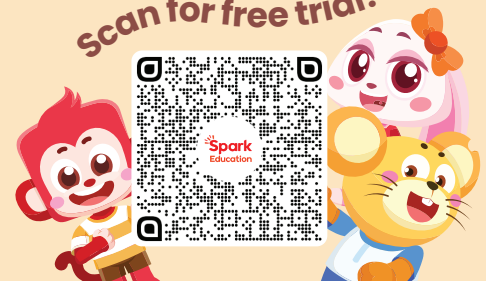


100+
Countries
and regions



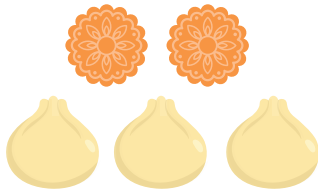
35 Awards
recognising
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6 Abby, Benny, and Casey are appreciating the full moon after dinner. It is 225 minutes until midnight. What time is it on a 24-hour digital clock?

7 A bakery makes buns and mooncakes. In 1 hour, 100 bakers can make 300 buns and 200 mooncakes. In 2 hours, 60 bakers can make 240 buns and 300 mooncakes. In 3 hours, 50 bakers can make 150 buns and k mooncakes. If all of the bakers work at the same rate, find k.

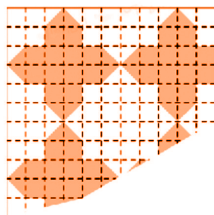


8 Benny had a box that holds 125 jellybeans when filled to capacity. At the reunion dinner, Abby brought another larger box full of jellybeans. Her box is twice as high, twice as wide, and twice as long as Benny's. Approximately how many jellybeans did Abby get?



- (A) 250 (B) 500 (C) 625 (D) 750 (E) 1000

9 A portion of a corner of a tiled floor is shown. If the entire floor is tiled in this way and each of the four corners looks like this one, then what fraction of the tiled floor is made up of darker tiles?



- (A) $\frac{1}{3}$ (B) $\frac{4}{9}$ (C) $\frac{1}{2}$ (D) $\frac{5}{9}$ (E) $\frac{5}{8}$

10 Casey has a dozen oranges of the same size and a dozen pears of the same size. Casey used his juicer to extract 200 ml of pear juice from 3 pears and 200 ml of orange juice from 2 oranges. He made a pear orange juice blend from an equal number of pears and oranges. What percent of the blend is pear juice?



- (A) 30 (B) 40 (C) 50 (D) 60 (E) 70

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