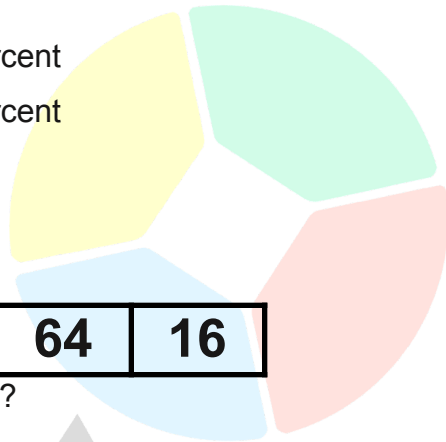**1** If $\frac{5}{8}$ of all the burgers served at the restaurant were cheeseburgers, what percentage of all the burgers served at the restaurant were cheeseburgers?

**A** 50 percent

**D** 75 percent

**B** 55.5 percent

**E** 80 percent

**C** 62.5 percent

**2** The numbers below follow a pattern.

| 4 | 1 | 16 | 4 | 64 | 16 |
|---|---|----|---|----|----|

Which of these numbers comes next in the pattern?

**A** 4

**D** 128

**B** 16

**E** 256

**C** 64

**3** There are 16 pigs and chickens on Uncle Hank's farm.

If Uncle Hank counted a total of 50 legs, how many more pigs than chickens are there on the farm?

**A** 0

**D** 7

**B** 2

**E** 9

**C** 4

**4** Wanda has $100 to spend on snacks.

She bought 5 cans of soda at $3 each and 6 sandwiches at $6 each.

How much money did Wanda have left?

**A** $91

**D** $49

**B** $71

**E** $36

**C** $51

**5** During the mall sale, a pair of boots that cost $95.50 was discounted by 30 percent.

If Paris bought the pair of boots during the mall sale, how much did she pay for the boots?

**A** $66.85

**D** $44.45

**B** $65.50

**E** $28.65

**C** $54.25

**6** The recipe instructions say to use one bar of butter for every two cups of flour.

If Chef Antonio used 25 cups of flour for the recipe, how many bars of butter should he use?

**A** 2.5 bars of butter

**D** 25 bars of butter

**B** 10 bars of butter

**E** 50 bars of butter

**C** 12.5 bars of butter

**7** Gary gave Alex his toys and Alex gave Peter half of the toys he received from Gary.

If Peter kept eight of those toys and gave the remaining ten to Kyle, how many toys did Gary give Alex?

**A** 40 toys

**D** 24 toys

**B** 36 toys

**E** 16 toys

**C** 32 toys

**8** Hanson walks 6 kilometres each day from Monday to Friday and walks 15 kilometres a day on Saturday and Sunday.

How many kilometres did Mr. Hamilton walk in a seven-day week?

**A** 21 kilometres

**D** 45 kilometres

**B** 30 kilometres

**E** 60 kilometres

**C** 36 kilometres
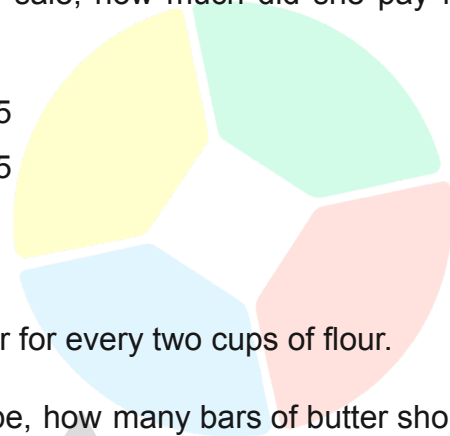
**9** Dee Dee has to be at school by 8:30 AM.

If it takes her 20 minutes to get dressed, then another 15 minutes to eat breakfast, and 35 minutes to walk to school, what time should she start getting dressed?

**A** 7:20 AM

**D** 7:50 AM

**B** 7:30 AM

**E** 8:00 AM

**C** 7:40 AM

**10** The passcode to a safe is composed of two numbers.

The greatest common factor of the two numbers is 6 and the least common multiple is 36.

If one of the numbers is 12, what is the other number?

**A** 6

**D** 24

**B** 16

**E** 36

**C** 18

**11** Marina bought 7 pairs of pants, one for each of her seven friends, at $24.50 each.

The shopkeeper charged her another $12.45 in sales tax.

If she left the store with $16.05, how much money did she start with?

**A** $140

**D** $200

**B** $160

**E** $220

**C** $180

**12** A toaster that used to sell for $24 had been marked up to $30.

By how much percent was the markup?

**A** 6 percent

**D** 24 percent

**B** 12 percent

**E** 25 percent

**C** 18 percent

**13** If half of Melvin's age two years from now plus one-third of his age three years ago equals 20 years, how old is he now

**A** 20 years old  **D** 36 years old

**B** 24 years old  **E** 40 years old

**C** 30 years old

**14** Minnie Mouse had the same number of 1-cent coins, 5-cent coins, and 10-cent coins in her purse.

If the total value of the coins in her purse is $1.44, how many of each kind of coin does she have in her purse?

**A** 6  **D** 9

**B** 7  **E** 10

**C** 8

**15** Three times as many men as women watched the baseball game last night.

If 600 men watch the baseball game last night and $\frac{1}{4}$ of the women were Red Lion fans, how many of the women were not Red Lion fans?

**A** 50 women  **D** 200 women
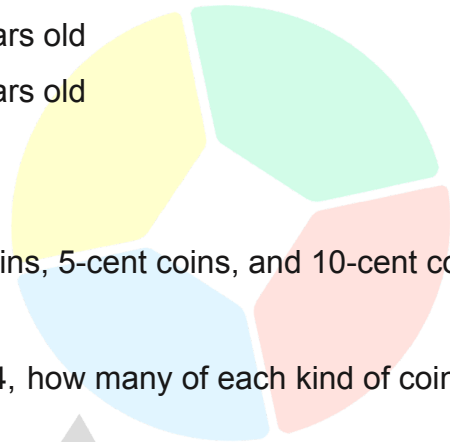
**B** 100 women  **E** 250 women

**C** 150 women

**16** Ruth has 10 one-dollar coins, 10 five-dollar bills, and 20 ten-dollar bills.

If she spent $\frac{1}{4}$ of her money, how much money did Ruth have left?

**A** $195  **D** $240

**B** $215  **E** $260

**C** $220

**17** A small container has a capacity of 5.65 litres and a large container has a capacity of 2.1 litres more than the small container.

What is the total capacity of the two containers?

**A** 7.75 litres          **D** 18.65 litres

**B** 13.4 litres          **E** 20 litres

**C** 15.5 litres

**18** A pair of pants cost $12.10 and a pair of shoes cost $29.90.

If Ben purchased 3 pairs of pants and 2 pairs of shoes, how much did Ben pay in all?

**A** $42.00          **D** $96.10

**B** $54.60          **E** $113.90

**C** $84.00

**19** Katrina started working on her homework at 6:20 PM and finished at 8:15 PM.

How long did Katrina work on her homework?

**A** 2 hours 5 minutes          **D** 1 hour 15 minutes

**B** 1 hour 55 minutes          **E** 1 hour 5 minutes

**C** 1 hour 35 minutes

**20** Jack has $65.80 more than Jill.

If Jack and Jill had $416.80 in total, how much money did Jack have?

**A** $175.50          **D** $232.50

**B** $188.50          **E** $241.30
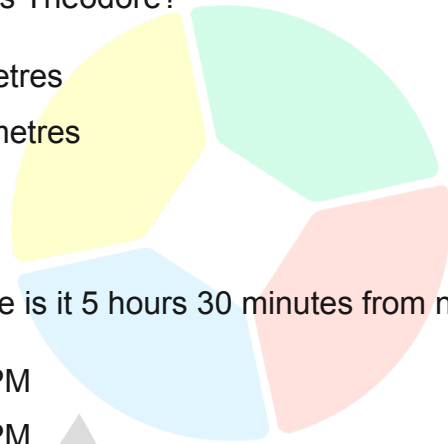
**C** $196.50
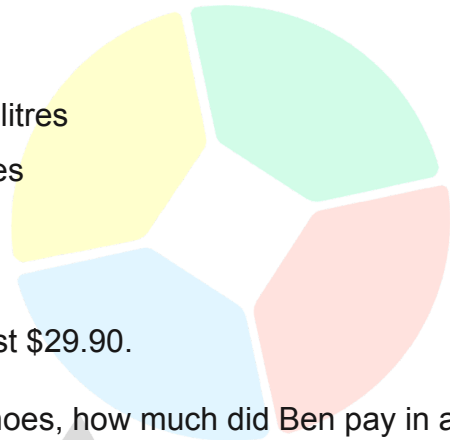
**21** Theodore is twice as tall as Simon, and Alvin is as tall as Theodore.

If the sum of their heights is 4.75 metres, how tall is Theodore?

**A** 2.85 metres

**D** 1.4 metres

**B** 1.9 metres

**E** 0.95 metres

**C** 1.65 metres

**22** If 3 hours 25 minutes ago was 10:40 AM, what time is it 5 hours 30 minutes from now?

**A** 2:05 PM

**D** 5:35 PM

**B** 3:25 PM

**E** 7:35 PM

**C** 4:10 PM

**23** Cecile went to the department store with $100.

She spent $14 on bath soaps, $32 on cleaning supplies, and bought shampoo for $23.

How much money did she have left?

**A** $31

**D** $51

**B** $39

**E** $69

**C** $41

**24** Betty and Veronica sold cupcakes at the school's bake sale.

For every 3 cupcakes that Betty sold, Veronica sold one.

If the two of them sold a total of 24 cupcakes, how many cupcakes did Veronica sell?

**A** 20 cupcakes
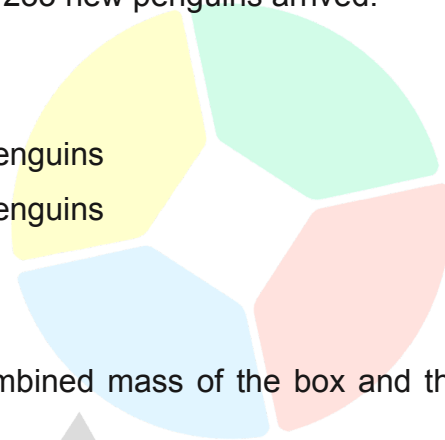
**D** 6 cupcakes

**B** 18 cupcakes

**E** 4 cupcakes

**C** 8 cupcakes

**25** Amelia Earhart saw 625 penguins on an iceberg.

After some time, 126 penguins left the iceberg but 233 new penguins arrived.

How many penguins are on the iceberg now?

**A** 359 penguins

**B** 499 penguins

**C** 516 penguins

**D** 732 penguins

**E** 858 penguins

**26** When a steel box is filled with iron balls, the combined mass of the box and the iron balls is 14 kilograms.

When the same steel box is filled with copper balls, the combined mass of the box and the copper balls is 8 kilograms less when it is filled with iron balls.

If the mass of the iron balls is three times the mass of the copper balls, what is the mass of the steel crate when it is empty?

**A** 4 kilograms

**B** 2.5 kilograms

**C** 2 kilograms

**D** 1.5 kilograms

**E** 1 kilogram

**27** Bert, working at a constant rate, can clean the house in 3 hours while Elmo, working at a constant rate, can clean the same house in 5 hours.
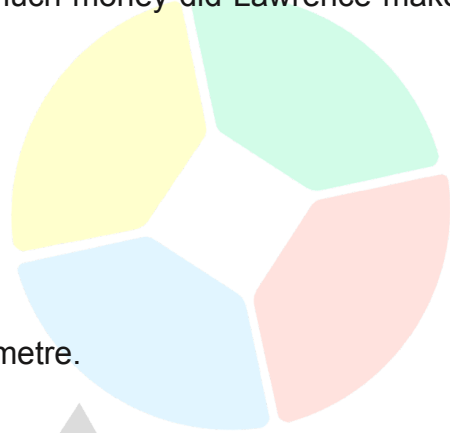
If the two of them work together at their respective constant rates to clean the house, how long will it take them?

**A** 2 hours

**B** $1\frac{7}{8}$ hours

**C** $1\frac{3}{4}$ hours

**D** $1\frac{5}{8}$ hours

**E** $1\frac{1}{2}$ hours

**28**  Lawrence made 120 birdhouses.

If he sold $\frac{2}{3}$ of the birdhouses at $6 each, how much money did Lawrence make from the sale of the birdhouses?

**A**  $80

**B**  $240

**C**  $320

**D**  $360

**E**  $480

**29**  Alice bought 8 metres of gold thread at $2.40 per metre.

She used the gold tread to make 32 bracelets.

If she used the same length of gold thread on each bracelet and there was no gold thread left over, what was the cost of the gold thread Alice used on each bracelet?

**A**  20 cents

**B**  32 cents

**C**  60 cents

**D**  64 cents

**E**  80 cents

**30**  It takes a large faucet 20 minutes to fill a container while it takes a small faucet 30 minutes to fill the same container.

If Greg used both faucets to fill the container, how long would it take?

**A**  10 minutes

**B**  12 minutes

**C**  14 minutes

**D**  15 minutes

**E**  16 minutes

**31**  A stack of 44 identical bricks is 14.08 metres tall.

What is the height of each brick?

**A**  0.32 centimetres

**B**  3.2 centimetres

**C**  6.4 centimetres

**D**  32 centimetres

**E**  64 centimetres

**32**  Cookie Monster made a batch of cookies.

He ate $\frac{1}{4}$ of the cookies in the batch and then made two more batches of cookies.

If he made 56 cookies in each batch, how many cookies did Cookie Monster have now?

**A**  168 cookies          **D**  126 cookies

**B**  154 cookies          **E**  112 cookies

**C**  136 cookies
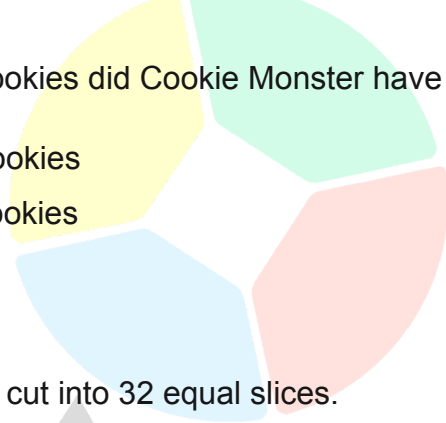

**33**  Jason and two of his friends each ate $\frac{1}{4}$ of a pizza cut into 32 equal slices.

How many slices of pizza were left?

**A**  2 slices          **D**  8 slices

**B**  4 slices          **E**  10 slices

**C**  6 slices


**34**  The Midnight Express train left the station empty and picked up 10 passengers at the first stop.

At the second stop, 4 passengers alighted the train and 9 passengers boarded the train.

At the third stop, 6 passengers alighted the train and 10 passengers boarded the train.
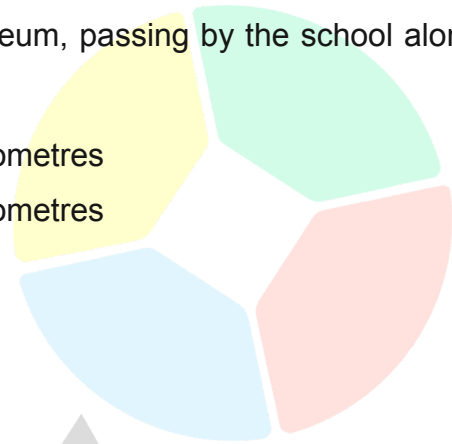
How many passengers are on the train now?

**A**  16 passengers          **D**  21 passengers

**B**  18 passengers          **E**  24 passengers

**C**  19 passengers

**35** The distance of the library to the school is 9 kilometres, and it is twice as far from the school as it is from the museum.

If Donald Duck drove from the library to the museum, passing by the school along the way, how far did Donald Duck drive?

**A** 18 kilometres

**B** 27 kilometres

**C** 30 kilometres

**D** 36 kilometres

**E** 45 kilometres