

- 1 Arthur can make 5 birdhouses in one hour.

At this rate, how many birdhouses can he make in  $2\frac{3}{5}$  hours?

- A 11 birdhouses  
B 12 birdhouses  
C 13 birdhouses  
D 14 birdhouses  
E 15 birdhouses

- 2 Jaime needs to collect 5 kilograms of empty cans in 4 days.

How much should she collect each day to reach her goal?

- A  $1\frac{4}{5}$  kilograms  
B  $1\frac{3}{4}$  kilograms  
C  $1\frac{1}{2}$  kilograms  
D  $1\frac{1}{4}$  kilograms  
E  $\frac{4}{5}$  of a kilogram

- 3 A single vial contains  $8\frac{3}{4}$  millilitres of magic potion.

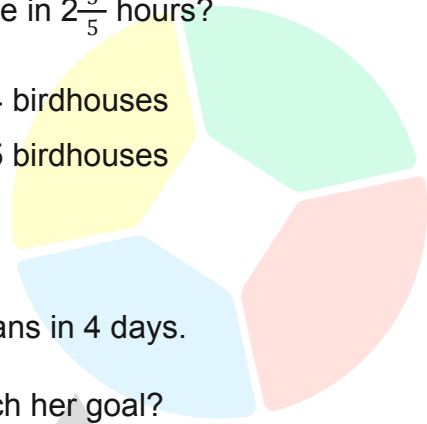
How many millilitres of magic potion did Gandalf make if he made 8 vials?

- A 70 millilitres  
B 66 millilitres  
C 62 millilitres  
D 56 millilitres  
E 54 millilitres

- 4 A customer can buy 5 kilograms of potatoes at the grocery store for \$16.

How much does one kilogram of potato cost?

- A \$3.40  
B \$3.20  
C \$2.80  
D \$2.60  
E \$2.40



5 If a bakery used 15.3 kilograms of flour daily, how many kilograms of flour did the restaurant use in 7 days?

- A 96.3 kilograms
- B 97.1 kilograms
- C 99.3 kilograms

- D 101.7 kilograms
- E 107.1 kilograms

6 An older model of the computer desktop had a screen 60 centimetres long.

The newer models increased the screen size by 20 percent.

How wide is the screen of the newer models?

- A 62 centimetres
- B 66 centimetres
- C 70 centimetres

- D 72 centimetres
- E 80 centimetres

7 Last month, the price of the toaster was only \$75.

Starting this month, the price of the toaster will be \$84.

By how much percent did the price of the toaster increase from last month to this month?

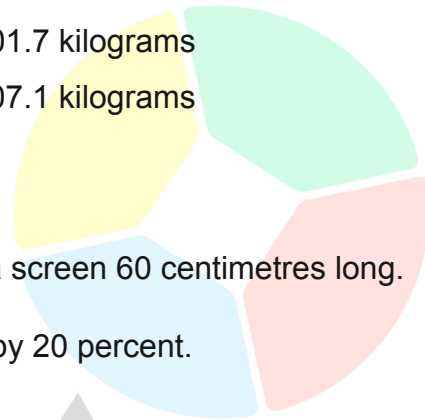
- A 9 percent
- B 10 percent
- C 12 percent

- D 15 percent
- E 20 percent

8 If Andy can paint  $\frac{1}{4}$  of the wall in half an hour, how many hours will it take him to paint the entire wall?

- A 2 hours
- B 2.25 hours
- C 2.5 hours

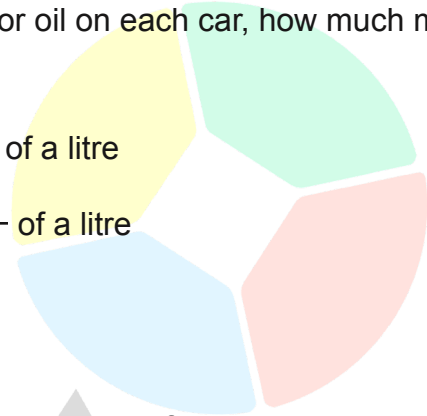
- D 2.75 hours
- E 3 hours



- 9 A mechanic used  $\frac{3}{5}$  of a litre of motor oil on six cars.

If the mechanic used the same amount of motor oil on each car, how much motor oil did he use in one car?

- A  $\frac{1}{2}$  of a litre  
B  $\frac{2}{5}$  of a litre  
C  $\frac{3}{10}$  of a litre  
D  $\frac{1}{5}$  of a litre  
E  $\frac{1}{10}$  of a litre



- 10 Cody built a tower by stacking 10 identical blocks on top of each other.

If each block is  $10\frac{3}{8}$  centimetres tall, how tall was the tower?

- A  $102\frac{1}{2}$  centimetres  
B  $103\frac{3}{4}$  centimetres  
C  $104\frac{1}{4}$  centimetres  
D  $104\frac{1}{2}$  centimetres  
E  $104\frac{3}{4}$  centimetres

- 11 Mindy had 7 days to use 3.5 litres of milk before it turned bad.

How much milk should she use each day?

- A 0.5 litres  
B 1 litre  
C 1.5 litres  
D 2 litres  
E 2.5 litres

- 12 A batch of chicken soup calls for  $2\frac{1}{2}$  kilograms of chicken legs.

If Chef Alfredo wants to make  $3\frac{1}{2}$  batches of chicken soup, how many kilograms of chicken legs does he need?

- A 6 kilograms  
D  $8\frac{1}{4}$  kilograms

B  $6\frac{3}{4}$  kilograms

E  $8\frac{3}{4}$  kilograms

C  $7\frac{1}{2}$  kilograms

- 13 A metalsmith bought a pack containing 12 metal sheets.

If the entire pack has a mass of  $40\frac{1}{2}$  kilograms, what is the mass of each metal sheet?

A  $2\frac{3}{4}$  kilograms

D  $3\frac{1}{2}$  kilograms

B  $3\frac{1}{4}$  kilograms

E  $3\frac{3}{4}$  kilograms

C  $3\frac{3}{8}$  kilograms

- 14 Bernard the Bee has 4 days to collect 7 millilitres of honey for the queen.

How many millilitres of honey should he collect each day?

A  $1\frac{1}{4}$  millilitres

D  $2\frac{1}{2}$  millilitres

B  $1\frac{3}{4}$  millilitres

E  $2\frac{3}{4}$  millilitres

C  $2\frac{1}{4}$  millilitres

- 15 The towel was 40 centimetres long.

After washing, the towel shrank and was only 0.8 times as long.

How long was the towel after washing?

A 39.2 centimetres

D 32 centimetres

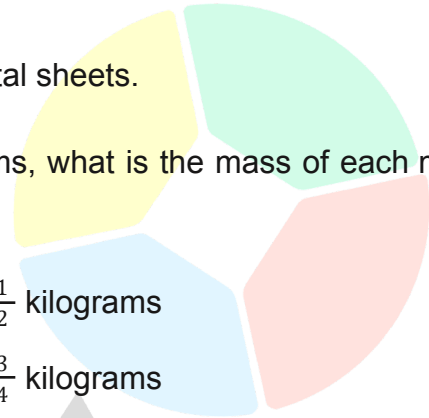
B 36 centimetres

E 30.2 centimetres

C 35.4 centimetres

- 16 A fast food restaurant used to sell hamburgers for \$15 each, but it decided to reduce the price by 25 percent.

What was the new price of each hamburger?



A \$11.00

D \$14.25

B \$11.25

E \$14.75

C \$12.75

- 17 Before the storm, the water level at the reservoir was 375 metres.

After the storm, the water level rose to 450 metres.

How much percent did the water level at the reservoir increase?

A 20 percent

D 40 percent

B 25 percent

E 80 percent

C 35 percent

- 18 Inspector Gadget spent \$12 to buy 8 litres of petrol.

At this rate, how many litres of petrol did he buy if he only spent \$7.50?

A 4.5 litres

D 7 litres

B 5 litres

E 7.5 litres

C 5.5 litres

- 19 A bag can hold 6 kilograms of sand, but Robert only filled it to  $\frac{1}{4}$  of its capacity.

How many kilograms of sand was in the bag?

A  $1\frac{1}{4}$  kilograms

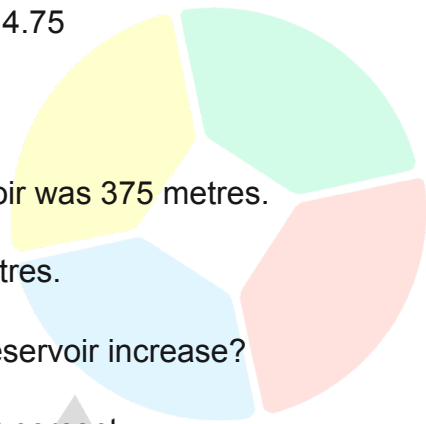
D  $1\frac{2}{3}$  kilograms

B  $1\frac{1}{3}$  kilograms

E  $1\frac{3}{4}$  kilograms

C  $1\frac{1}{2}$  kilograms

- 20 Mr. Romero has 2 hectares of land he wants to split among his three children evenly.



How many hectares of land should each child get?

A  $1\frac{1}{2}$  hectares

B  $1\frac{1}{3}$  hectares

C  $1\frac{1}{4}$  hectares

D  $\frac{3}{4}$  of a hectare

E  $\frac{2}{3}$  of a hectare



21 A box of paper clips has a mass of 24.6 grams.

What is the total mass of paperclips in  $3\frac{1}{2}$  boxes?

A 86.6 grams

B 86.1 grams

C 85.8 grams

D 84.8 grams

E 84.2 grams

22 A pizzeria has 10 cans of pizza sauce.

How many pizzas can they make if each pizza needs  $1\frac{1}{4}$  cans of pizza sauce to make?

A 5 pizzas

B 6 pizzas

C 7 pizzas

D 8 pizzas

E 10 pizzas

23 A group of five friends bought half a kilogram of bubble gum.

How much did each friend get if the friends split the bubble gum equally?

A 0.1 kilograms

B 0.2 kilograms

C 0.25 kilograms

D 0.4 kilograms

E 0.5 kilograms

24 Barbie bought some cupcakes for her birthday party.

If  $\frac{4}{5}$  of the cupcakes were chocolate cupcakes, and half of the chocolate cupcakes had sprinkles, what fraction of all the cupcakes were chocolate cupcakes with sprinkles?

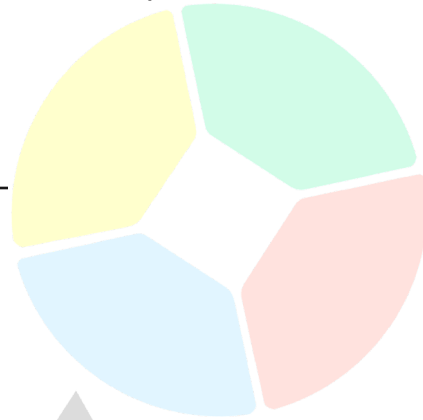
A  $\frac{1}{2}$

B  $\frac{2}{5}$

C  $\frac{3}{10}$

D  $\frac{1}{5}$

E  $\frac{1}{10}$



- 25 Half of the marbles in the bag are red,  $\frac{1}{3}$  are blue, and the rest are green.

How many were green if there were 24 red marbles in the bag?

A 6 marbles

D 12 marbles

B 8 marbles

E 15 marbles

C 10 marbles

- 26 Patricia spent 30 percent of her money on a chocolate bar, 45 percent on ice cream, and the remaining \$2 on a pack of bubble gum.

How much money did Patricia have at the start?

A \$20

D \$10

B \$15

E \$8

C \$12

- 27 A carpenter cuts a wooden board 17.5 metres long into two pieces.

If the length of the shorter piece is  $\frac{1}{4}$  the length of the longer piece, what is the length of the longer piece?

A 14 metres

D 7 metres

B 8.5 metres

E 3.5 metres

C 7.5 metres

28 There are 60 students in Steve Xu's selective class.

If 60 percent of the students were girls and one-third of the girls had blue eyes, how many students in Steve Xu's selective class are girls with blue eyes?

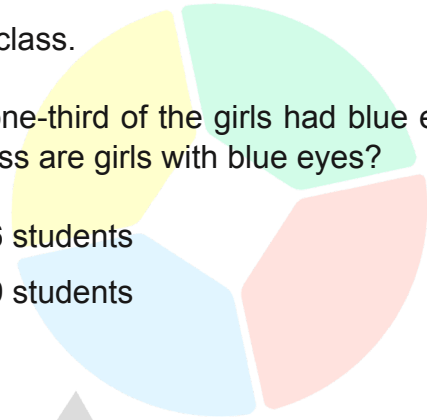
A 12 students

B 13 students

C 18 students

D 36 students

E 39 students



29 Captain Barbosa has a treasure chest containing precious gems.

Half of the gems in the chest were diamonds,  $\frac{5}{9}$  of the remaining gems were topazes, and the remaining 20 gems were rubies.

How many precious gems were there in the treasure chest?

A 150 precious gems

B 120 precious gems

C 100 precious gems

D 90 precious gems

E 80 precious gems

30 A solution is 60 percent alcohol by volume.

How much alcohol is there in a 9-litre solution?

A 4.5 litres

B 5 litres

C 5.4 litres

D 6 litres

E 6.2 litres