

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Space for rough work

- 1 A shop sells, on average, 250 cans of juice a day.  
There are 25500 cans in stock.

How many days will these stocks last?

- a 12
- b 102
- c 120
- d 1020

- 2 The total trade union membership of a country  
fell from 9.6 million to 9.4 million.

This represents a drop in membership of

- a 2000
- b 20000
- c 200000
- d 2000000

- 3 The square of 13 is

- a 3.6
- b 26
- c 139
- d 169

- 4  $\sqrt{64}$  equals

- a 4
- b 8
- c 16
- d 32

- 5 6200 in standard form is

- a  $6.2 \times 10^4$
- b  $62 \times 100$
- c  $0.62 \times 10^4$
- d  $6.2 \times 10^3$

- 6 Which one of the following numbers  
has the greatest value?

- a  $1.28 \times 10^4$
- b  $9.2 \times 10^3$
- c  $1.872 \times 10^3$
- d  $2.1 \times 10^4$

- 7 The temperature inside a freezer changes from  $-22^{\circ}\text{C}$  to  $-9^{\circ}\text{C}$ .

By how many degrees does the temperature rise?

- a  $-31$
  - b  $-13$
  - c  $13$
  - d  $31$
- 8 Tara has \$42.76 in her bank account. She pays in a cheque for \$52.60 and writes cheques for \$4.26, \$3.59 and \$27.80

The amount of money left in her account is

- a \$7.11
  - b \$25.81
  - c \$35.65
  - d \$59.71
- 9 A person needs 1.5mg of Vitamin A from food each day.

A 120g apple provides 0.036mg, a 100g banana provides 0.27mg and an 80g peach provides 0.576mg.

How much more Vitamin A does the person need after eating the apple, banana and peach?

- a 0.618mg
  - b 0.728mg
  - c 0.861mg
  - d 0.971mg
- 10 A customer buys a piece of cheese that costs \$4.68 and a loaf of bread that costs \$1.35

How much change should the customer receive from \$10?

- a \$3.97
- b \$4.97
- c \$5.32
- d \$6.03

- 11 In a diving competition, the points awarded for a dive are calculated by multiplying the judges' score by the degree of difficulty.

Calculate the points awarded when the judges' score is 19.7 and the degree of difficulty is 2.7

- a 22.4
  - b 38.49
  - c 53.19
  - d 138.24
- 12 A medicine bottle holds 36cl.
- How many doses of 0.6cl is this?
- a 6
  - b 21.6
  - c 60
  - d 216
- 13  $0.3 \times 0.8$  is
- a 0.204
  - b 0.24
  - c 2.4
  - d 24
- 14 What is the difference in cost between 0.5 kilograms of red grapes at \$4.50 per kilogram and 0.5 kilograms of green grapes at \$3.00 per kilogram?
- a \$0.55
  - b \$0.75
  - c \$1.50
  - d \$3.75
- 15 A student has \$8.00 to spend on stationery. She buys **two** pens each costing \$1.29 and a pack of paper costing \$4.50.
- Does she have enough money left to buy a folder costing \$1.40?
- a Yes – she has \$2.21 left
  - b Yes –she has \$1.92 left
  - c No – she has overspent by \$2.29
  - d No – she only has \$0.92 left

16 What is  $\frac{3}{8} + \frac{3}{16}$

a  $\frac{6}{24}$

b  $\frac{9}{24}$

c  $\frac{9}{16}$

d  $\frac{6}{16}$

- 17 The following table shows what fraction of its weekly income a family spends on different items:

Housing	$\frac{1}{4}$
Fuel	$\frac{1}{10}$
Food	$\frac{2}{5}$
Clothes	$\frac{1}{10}$
Transport	$\frac{1}{20}$

What is the total fraction of income spent on these items?

a  $\frac{9}{10}$

b  $\frac{43}{49}$

c  $\frac{7}{10}$

d  $\frac{6}{49}$

- 18 Lengths of material measuring  $1\frac{7}{10}$  m,  $2\frac{3}{4}$  m and  $3\frac{1}{2}$  m are cut from a roll.

What is the total length of material cut?

a  $6\frac{11}{16}$  m

b  $6\frac{19}{20}$  m

c  $7\frac{19}{20}$  m

d  $8\frac{1}{20}$  m

19  $4\frac{1}{2} \div 2\frac{1}{3} =$

a  $1\frac{13}{14}$

b  $2\frac{1}{6}$

c  $3\frac{1}{2}$

d  $10\frac{1}{2}$

20  $2\frac{1}{4} \times \frac{1}{2}$  is

a  $1\frac{1}{8}$

b  $1\frac{1}{2}$

c  $2\frac{1}{8}$

d  $4\frac{1}{2}$

- 21 A recipe for making bread rolls requires  $1\frac{3}{4}$  pounds of flour.

How many pounds of flour are required to make  $2\frac{1}{2}$  times as many rolls?

a  $2\frac{3}{8}$

b  $4\frac{1}{4}$

c  $4\frac{3}{8}$

d  $5\frac{5}{6}$

- 22 A recipe for 6 people requires  $\frac{1}{2}$  litre of water.

How much water is needed for 4 people?

a  $\frac{1}{4}$  litre

b  $\frac{1}{3}$  litre

c  $\frac{3}{4}$  litre

d  $\frac{4}{3}$  litre

- 23 A student buys 4 files at 99¢ each and 2 pads of file paper at \$1.20 each.

How much change will he receive from \$10.00?

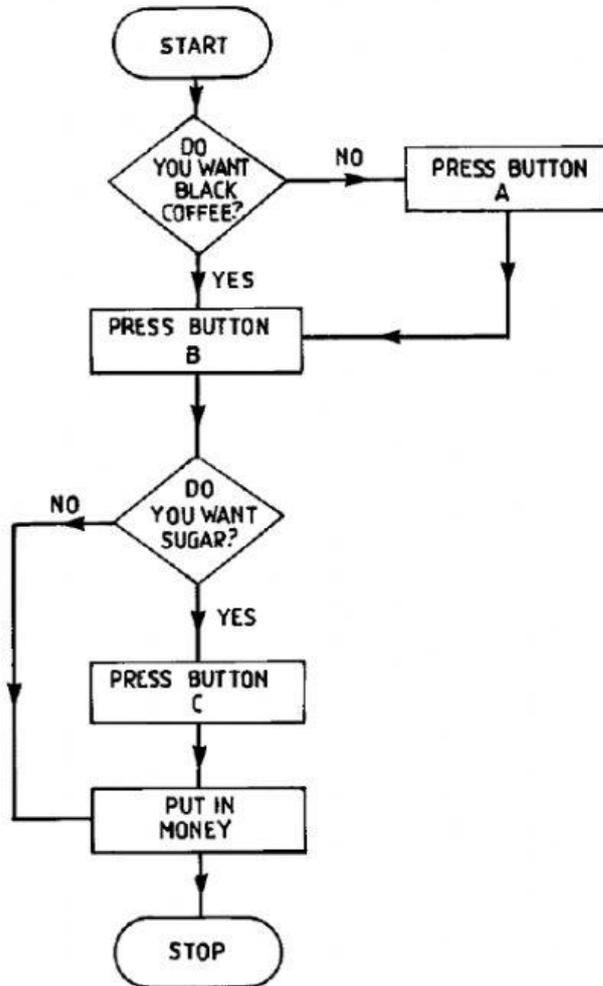
a \$3.64

b \$4.64

c \$4.84

d \$6.36

24 Here are instructions for choosing coffee from a machine.



Which buttons **must** be pressed for white coffee with no sugar?

- a A and B
- b A and C
- c B and C
- d A, B and C

25 A 500 millilitre carton of milk contains 1.6% fat.

How many millilitres of fat are in the carton?

- a 0.32
- b 1.6
- c 3.125
- d 8

26 \$18 as a percentage of \$90 is

- a 5%
- b 20%
- c 72%
- d 80%

27 A shop is offering a 15% reduction on the price of some motorbikes. The original price of a bike was \$860.

What is its reduced price?

- a \$710
- b \$731
- c \$774
- d \$845

28 A man invests \$2000 in a savings account.

The bank pays interest into the account at the end of each year.

<p><b>Savings account</b> 3% compound interest per year</p>
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The man does not take any money out.

What is the balance after the bank has paid **two** interest payments into the account?

- a \$2000.60
- b \$2060
- c \$2120
- d \$2121.80