

Functional Skills

Level 1

Topic:

Place Value and order in Number

Questions 1 & 2 are about a weight watchers club.

1. A weight-watcher weighs 70 kilograms.
1 kilogram is equal to 2.2 pounds.
She works out what her weight is in pounds.

Which of these approximate calculations will check her answer?

- A $70 \div 2$
- B $70 \div 3$
- C 70×2
- D 70×3

2. Another weight-watcher limits her calorie intake to no more than 1 350 calories each day.
She calculates this is 9450 calories for a week.
Which of these calculations will check her answer?

- A 1350×9450
- B 7×9450
- C $1350 \div 7$
- D $9450 \div 7$

3. The table shows the prices of competition souvenirs.

Souvenir Prices	
Programme	£2.50
Badge	£1.99
Mug	£3.00

The family purchases one programme, one badge and one mug.
The total bill is £7.49.

Which reverse calculation checks the bill?

- A $£7.49 + £2.50 + £1.99 + £3.00$
- B $£7.49 - £2.50 - £1.99 - £3.00$
- C $£7.49 \div £2.50 + £3.00 + £3.00$
- D $£7.49 - £1.99 - £2.50 - £2.50$

4. A package weighs 2.372 kilograms.
The weight of the package to the nearest one tenth of a kilogram is

A 2.3kg
B 2.37kg
C 2.38kg
D 2.4kg

5. A swimming club member takes 56.8 seconds to swim a length.
What is his time to the nearest second?

A 50 seconds
B 56 seconds
C 57 seconds
D 60 seconds

6. A family of 8 attends a dance competition.
The table shows the prices of tickets.

TICKET PRICES	
Adults (16 years and over)	£6.00
Children (Aged 2 years and under 16 years)	£4.00
Infants (Under 2 years)	FREE

Five of the family are adults. Three are 14 years old.
What is the total price the family pays?

A £32.00
B £38.00
C £42.00
D £48.00

7 A shop has a special offer on biscuits.

SPECIAL OFFER
£1.20 PER PACK
BUY 3 PACKS FOR THE PRICE OF 2

A customer buys three packs of biscuits.
Which calculation gives the cost of each pack?

- A $2 \times 1.20 + 3$
- B $2 \times 1.20 + 2$
- C $3 \times 1.20 \div 3$
- D $3 \times 1.20 \div 2$

8 A mountain is 18 567 feet high.
18 567 rounded to the nearest 100 is

- A 18500
- B 18570
- C 18600
- D 19000

9 A climber has a map that shows heights of mountains in feet.
A metre is about 3 feet.
Which calculation gives the approximate number of metres in 18 567 feet?

- A $3 \div 18567$
- B $3 + 18567$
- C $18567 \div 3$
- D 18567×3

10 A suit costs £67.25 to make.
What is this rounded to the nearest £10?

- A £60
- B £67
- C £68
- D £70

- 11 A workman erects six panels of fencing which need painting with preservative. The total area of the fence panels is 96.5m^2 . One litre of preservative covers 16m^2 . What calculation does he use to work out how many litres of preservative are needed?

- A $96.5 \div 16$
- B $96.5 - 16$
- C $16 \div 96.5$
- D 16×96.5

- 12 The workman works out the exact cost of the preservative on his calculator. The calculator display shows

36.7768

What is this rounded to the nearest penny?

- A £36.77
- B £36.78
- C £36.80
- D £37.00

- 13 Officials time a 200m hurdles race with a stopwatch. These are the results.

Hurdles Trial Results	
Name	Time
Joe	25.4secs
Paul	28.6secs
James	29.5secs
Alan	33.8secs

The results in the table are recorded to the nearest

- A hundredth of a second
- B tenth of a second
- C second
- D 10 seconds

- 14 Jason buys a music CD and a pack of 3 video tapes. The total cost is £17.44. He pays with two £10 notes and receives £2.56 change.

Which reverse calculation checks if his change is correct?

- A $£2.56 + £20$
- B $£17.44 - £10$
- C $£17.44 - £2.56$
- D $£17.44 + £2.56$

- 15 An factory worker packs cartons of fudge into a large box. The box is 5 cartons long and 6 cartons wide. The box holds 2 layers of cartons.

How many cartons of fudge are in a full large box?

- A 13
- B 22
- C 30
- D 60

- 16 A shop assistant is paid £5.50 an hour. Each week, she works 7 hours a day for 6 days and has one day off.

Which calculation gives her total pay for one week?

- A $5.50 \div 7 \div 6$
- B $5.50 \div 7 \times 6$
- C $5.50 \times 7 \div 6$
- D $5.50 \times 7 \times 6$

- 17 A magazine publisher is reviewing the sales. Total sales for a six-month period were 6 349 magazines. To the nearest thousand this is

- A 6 000
- B 6 300
- C 6 350
- D 7 000

18 In the census of 2001 the population of a town was counted as 465376
To the nearest 100 this is

- A 465000
- B 465300
- C 465380
- D 465400

19 A supermarket has a special offer,

SPECIAL OFFER
Peaches 36p per can
Buy 3 cans for the price of 2

A customer buys three cans of peaches at the special offer price.
How much does she pay altogether?

- A 36p
- B 54p
- C 72p
- D 108p

20 The customer caught a bus to the supermarket.
She and her friend share a taxi home, paying half of the taxi fare each.
The bus fare is 74p and the taxi fare costs £3.50
Which calculation will she use to work out her total travel costs?

- A $(0.74 + 3.50) \div 2$
- B $0.74 + (3.50 \div 2)$
- C $(0.74 \div 2) + 3.50$
- b $0.74 + (2 \div 3.50)$

- 21 A person buys food and plants for a fish tank.
The food costs £5.40 and the two plants cost £3.60 each.
He pays £15 and receives £2.40 change.
Which of the following calculations checks that his change is correct?
- A $£5.40 + £3.60 + £2.40$
B $£5.40 + £3.60 + £3.60$
C $£2.40 + £3.60 + £5.40 + £2.40$
D $£2.40 + £3.60 + £3.60 + £5.40$
- 22 A loan of £20 000 over 84 months costs £304.42 per month.
Which calculation shows the total cost?
- A $20\ 000 \div 84$
B $20\ 000 \div 304.42$
C 84×304.42
D $20\ 000 \times 304.42$
- 23 The manager of a fish and chip shop buys potatoes in 25kg sacks.
He peels the potatoes and throws away 5kg of peelings for each sack.
He uses 0.3kg of peeled potatoes to make one portion of chips.
Which of these calculations should he use to work out how many portions of chips he can make from one sack of potatoes?
- A $\frac{25-5}{0.3}$
B $25 - \frac{5}{0.3}$
C $\frac{0.3}{25-5}$
D $\frac{25}{0.3} - 5$

- 24 Jane is thinking of changing her car.
She looks at a smaller new car.
This car costs £8 000 on interest-free credit.
This is the price sticker.

£8000
£2000 deposit and
24 monthly payments of £250

Which calculation checks that the monthly payments are correct?

- A $\frac{8000 - 2000}{24}$
- B $\frac{8000}{24} - 2000$
- C $\frac{8000 - 2000}{24}$
- D $8000 - \frac{2000}{24}$

- 25 During the third period of the year a woman uses 1432 units of electricity.
Each unit costs £0.07
The company makes an extra charge of £0.166 per day for the three-month period of 92 days.
Which of these calculations gives the total cost of the electricity and supply for this period?

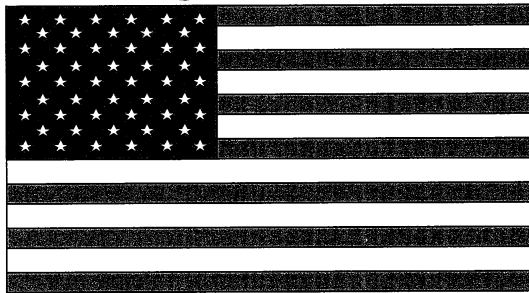
- A $0.07 \div (92 \times 0.166)$
- B $(1432 \times 0.07) + 0.166$
- C $(1432 \times 0.166) \div (92 \times 0.07)$
- D $(1432 \times 0.07) + (92 \times 0.166)$

- 26 A builder needs 480 concrete blocks for the garage.
He buys concrete blocks on pallets of 32 blocks.
Each pallet of concrete blocks costs £51.20
Which of these calculations gives the total cost of the concrete blocks?

- A $51.20 \div 480 \times 32$
B $480 \div 51.20 \times 32$
C $480 \times 32 \div 51.20$
D $480 \div 32 \times 51.20$

- 27 A travel agency exchanges currency.

Going to America?



We give **1.567** dollars (\$) for
1 pound (£)

What is 1.567 dollars to the nearest tenth of a dollar?

- A \$1.50
B \$1.56
C \$1.57
D \$1.60

28 A car owner receives this bill for a car service at a garage.

Car Service	
Parts	£16.80
Labour	£35.00
VAT @ $17\frac{1}{2}\%$	£ 9.06

Total	£60.86

Which calculation checks this bill?

- A $£60.86 - £9.06 - £35.00$
- B $£60.86 - £9.06 + £35.00$
- C $£60.86 + £16.80 - £9.06$
- D $£60.86 + £16.80 + £9.06$

29 A tiler can tile 4 square metres in 1 hour.
Which calculation gives the number of hours he takes to tile 25.2 square metres?

- A $4 \div 25.2$
- B $25.2 \div 4$
- C $4 + 25.2$
- D 25.2×4

30 A company employs 68 774 people.
What is 68774 to the nearest hundred?

- A 68 700
- B 68 770
- C 68 800
- D 69 000

Questions 31 to 32 are about the work of a plumber.

- 31 The plumber charges a £40 call-out fee and £16.50 per hour for his labour. He works out the total charge for a job that takes three hours as £89.50

Which calculation checks the total charge for call out and labour?

- A $3 \times 16.50 - 40$
- B $3 \times 16.50 + 40$
- C $3 \times 40 + 16.50$
- b $3 \times (40 + 16.50)$

- 32 He works out the VAT cost in pounds of one job as

15.6625

What is the VAT cost rounded to two decimal places?

- A £15.00
- B £15.60
- C £15.66
- D £15.70

- 33 A restaurant employs three full-time staff. They each earn £200 a week. Which calculation works out their total wages in a year?

- A $3 \times 52 + 200$
- B $3 \times 200 + 52$
- C $3 + 52 \times 200$
- D $3 \times 200 \times 52$

- 34 A woman needs 4 lengths of fabric each 1.8 metres long to make some curtains. The fabric costs £8.59 a metre. Which calculation gives the total cost of fabric?

- A $4 \times 1.8 \div 8.59$
- B $1.8 \div 4 \times 8.59$
- C $4 \div 1.8 \times 8.59$
- D $4 \times 1.8 \times 8.59$