

Functional Skills Maths Entry Level 3

Diagnostic Assessment

v2.0



Best Practice

This is a diagnostic assessment, not a test. A test measures what you do know, whereas this set of questions will attempt to gauge what you do not know in order that your tutor can better assist you with your learning.

Please try and answer all questions, but do not guess. If you fluke a correct answer your tutor may think you understand the topic it refers to, when in truth you need to learn it.

Equipment you will need:

A ruler, pen, pencil and extra paper for workings out, attaching any extra paper used to your answer sheet as this may help your tutor.



You work at a theme park and your first job is helping at a ticket booth.

1. You sell 568 tickets in the morning and 379 in the afternoon.

How many tickets do you sell altogether?

2. There is a special event next week and you have 750 tickets to sell.

476 tickets have been sold online.

How many tickets are left?

3. Your next customer wants to buy 2 adult tickets and 1 child ticket.

Adult ticket	£48
Child ticket (Under 12)	£37
Family ticket (2 adults and up to 3 children)	£180



£

They want to spend the least amount of money.

How much will it cost?



4. There are 4 different shows on during the day.

Number the shows in the correct time order starting from the earliest.



5. 466 people go to see the pirate show.

What is this number rounded to the nearest 10?

6. Your friend works in one of the gift shops.

She sold 148 pirate souvenirs before the show. After the show she sells 257 more. How many souvenirs did she sell altogether?



A customer has £75 worth of vouchers to spend in the gift shop.
She buys gifts costing £143.



How much money will the customer need to add to the vouchers to pay for the gifts?

8. A school party come into the gift shop. They all want to buy a badge. Your friend needs to get 37 badges from the stock room. The badges come in packs of 10.

How many packs does she need?

_____ packs

9. The badges come in various shapes.

Which badge(s) contain right angles?

Circle your answer(s).



10. The gift shop is having a sale. Your friend sells half her stock of keyrings every hour. She has 24 boxes at the start of the sale.

How many boxes will she have left after 3 hours?

_____ boxes



£____

11. The next customer spends £17.55. What is this rounded to the nearest pound?



12. Your friend is posting 3 gifts to a customer.



- What is the total weight? _____kg
- 13. She puts the gifts into a box. She puts a label on one side of the box.How many faces do **not** have labels?





14. One of the parcels weighs 2500 grams.

Which of the following weights is the same as this? Circle your answer.



15. There are 6 groups of 3 people waiting to go on the underground ride. **Each car can take 4 people.**

How many cars do you need?

____ cars



What is his height?

_____ cm.





17. The underground ride is 861 metres long.What is this number rounded to the nearest 100.

18. There is a **minimum** height restriction of 1.5 metres on some rides. These are the heights of a group of friends.

Select any of the friends who **cannot** go on the ride.



19. The rollercoaster is 17.5 metres high.

Which answer is the same as this?

Circle your answer.

1.75 km
175 cm
1750 cm
0.175 km



20. You check for available seats on the interactive ride. There are 8 seats in each row. If 4 of the seats are occupied what fraction of seats are available?

Circle your answer.



21. The interactive ride has different targets spaced apart.

What is the distance of the next target?





____ m



23. You are on a low fat diet.

Which of the following sandwiches would be the best choice for your lunch?

Circle your answer.



24. You buy a sandwich and a drink for your lunch.

Price L	.ist
Soup	£1.80
Sandwich	£1.65
Jacket potato	£3.50
Drinks	£1.70

You pay with a £10 note.

How much change will you get?

£_____

25. You have a litre bottle of water. You drink 400 millilitres.

How much water is left?

Circle your answer.





26. You get paid £10 per hour.

You work 7 hours a day. You work 5 days a week.

How much is your total pay each week?

£____

27. You look at the weather forecast online. Here are the temperatures for the week.

Day	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Temperature	10°C	11°C	10°C	16°C	16°C	14°C	17°C

Which day(s) have a temperature between 12°C and 15°C?

Circle your answer.





28. You are going on holiday for a week on Friday 18th June.

Your first day back at work is the Monday after your holiday.

June	16"	Wed
1 st	Tues 17 [*]	Thurs
2 nd	Wed 18*	Fri
3 rd	Thurs = 19*	Sat
4 th	Fri 20*	Sun
5"	Sat 21*	Mon
6 th	Sun 22 rd	Tues
7 ^m	Mon 23 rd	Wed
8 th	Tues 24 th	Thurs
9 th	Wed 25*	Fri
10 th	Thurs 26*	Sat
11 th	Fri 27*	Sun
12 ^{**}	Sat 28*	Mon
13*	Sun 29*	Tues
14 th	Mon 30 th	Wed
15	Tues	

What date do you start back at work?

Monday _____ June



29. Your friend works at one of the photo kiosks and has made a pictogram of the photo sales.

Use this information to answer the questions below.



How many photos were sold on Saturday?

30. On which day were 25 photos sold? **Circle your answer** from the options below.





Yes

No

31. Every 5th person on the water ride gets a free photo. One of your friends is 53rd in the queue.

Will she get a free photo?

Circle your answer.



Your next job is to help out at the Coffee Stop cafe.

32. You need change for the till.

You are given £10 worth of 20p coins.

How many 20p coins is this?

_____ coins





33. You need to put one and a half litres of water into the coffee machine.

Which bottle of water do you use? Circle your answer from the options below.



34. You fill the coffee machine with milk.



How much milk is in the jug?

____ml



g

35. You add the coffee.

What weight is shown on the scales?



36. You have a 1 kilogram bag of sugar. You use 435 grams to fill the sugar bowls.

How much sugar is left in the bag?

_____g





37. You check how many plastic cups there are. The cups are in packs of 5.



You start to count the cups. Fill in the missing numbers.

55, 60, 65, ____, ____, ____, ____,

38. There is a recycle bin for the rubbish.

What shape is the bin? Circle your answer from the options below.







39. You have to complete a sales record to the nearest 10 drinks.A total of 776 drinks have been sold.

What number do you write in the sales record?

_____ drinks

40. You cut a large chocolate cake into 8 equal pieces. You sell 6 pieces of the cake.

What fraction of the cake is left?



41. You sell muffins at the cafe.



Is it cheaper to buy a bag of 4 muffins? **Circle your answer** from the options below.





42. There is a gap of 1 metre. You put a table into the gap. The table is 70 centimetres wide.

How much space is left? Circle your answer from the options below.

300 cm	
40 cm	
0.4 m	
0.3 m	

43. The thermometer shows the temperature inside the café.



What is the reading on the thermometer?

°C

44. One of the customers has twisted her ankle. You give her a lift in an electric buggy.

You drive 5.9 kilometres to the customer. Then you drive 4 kilometres to the first aid station and finally 6.8 kilometres to the car park.

How far have you driven altogether?

_____km



45. There is a weight limit on some of the rides for the under 5's.

Archie	18.7 kg
Lola	17.6 kg
Finley	18.4 kg
Мауа	17.8 kg

Who is the lightest? Circle your answer from the options below.

Archie
Lola
Finley
Maya







Which ride has the least waiting time? Circle your answer from the options below.



47. How much longer would you expect to wait to go on the water ride than the interactive ride?

_____ minutes



48. This diagram shows the types of rides in the theme park.



What fraction of the diagram are water rides? **Circle your answer** from the options below.



49. 4 out of 12 family rides are for young riders under the age of 5.

What fraction has the same value as 4/12?

Circle your answer from the options below.





50. At the end of the day a group of friends have the following amounts of money left.

George	£10.75
Ben	£11.05
Hannah	£11.70
Emily	£10.50

Who has the most money?

Circle your answer from the options below.

George	
Ben	
Hannah	
Emily	