

Name:

Date:

Best Buys

GCSE

Edexcel
Mathematics
Grade (9-1)

Mark

Score (%)

<hr/> 67

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Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

- The marks for the questions are shown in brackets

1 Jamie wishes to buy some carrots at the vegetable market.

She has the following options:

<p>5 carrots \$1.40</p>

<p>12 carrots \$ 3.60</p>

Which option gives better value for money?
You **must** show all of your working.

.....
(Total for question 1 is 2 marks)

2 Hand soap from 2 different brands is available at a supermarket.

<p>MANGO 300 ml \$5.40</p>

<p>BERRY BLAST 210 ml \$3.99</p>
--

Which brand offers better value for money?
You **must** show all of your working.

.....
(Total for question 2 is 2 marks)

3 Sam is staying in Washington DC for 14 days.
He wants to buy a Metro card for public buses.

He has 2 options:

Gold Subscription
Card: \$3.50
Travel: \$3 per ride

Premium Subscription
Card: \$6
Travel: \$2.80 per ride

Sam intends to use the bus twice every day.
Which subscription is a better choice?
You **must** show all of your working.

.....
(Total for question 3 is 4 marks)



4 Thomas wants to buy a car
He has 2 options:

<p style="text-align: center;">Option 1 Down payment: \$10,000 Monthly installments: \$5000 Duration: 6 months</p>	<p style="text-align: center;">Option 2 Down Payment: \$7,500 Monthly installments: \$2500 Duration: 12 months</p>
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Work out the difference in the overall price paid for the car for both the options.

\$.....

(Total for question 4 is 5 marks)

5 Onions cost \$11.50 for 5 kg in the vegetable market.
They cost \$14 for 6 kg in the supermarket.
Which option has better value for price?
You **must** show your working.

.....
(Total for question 5 is 2 marks)

6 Jeff is buying the newest iPhone.
He can buy it at Phone City or Talk Town.

Phone City
A discounted price
of \$750
*with 17% g.s.t

Talk Town
20% off the usual
price of \$999

Which offer is better?
You **must** show all of your working.

.....
(Total for question 6 is 2 marks)

7 Jeremy is buying ice cream for his class of 30 students.

He can buy it at the school canteen or in the supermarket.

The school canteen offers ice cream at a discounted price of \$1.50 per ice cream.

The supermarket offers ice cream at the full price of \$2 but has a buy 2 get 1 promotion offer.

Where should Jeremy buy the ice cream?

.....
(Total for question 7 is 4 marks)

8 Shahrukh is buying tissue paper boxes.

There are 2 types of sets available at the supermarket:

Pack of 3 \$1.78

Pack of 9 \$5.49

Which set offers better value for money?

.....
(Total for question 8 is 2 marks)

9 Rose wants to buy 18 scented candles.
She finds two stores with promotion offers:
Candles and More: Flat 30% off
The Candle Store: Buy 2 get 1 free
Which store should Rose choose?

.....
(Total for question 9 is 3 marks)

10 Elena is going on holiday to Japan.
She has to choose between 2 airlines:

<p style="text-align: center;">Air Here</p> <p style="text-align: center;">Ticket price: \$1500 Credit card tax: 2.5% Refreshments: \$110</p>
--

<p style="text-align: center;">Fly By</p> <p style="text-align: center;">Ticket: \$1750 Credit card tax: 1.7% Refreshments: \$125</p>
--

Which airline should Elena choose?

.....
(Total for question 10 is 4 marks)

11 Liz is going to buy lotion.
Each bottle costs \$30.
Each bottle has 200 ml lotion.
She finds 2 offers at Bath and Body Works:

Offer 1
Buy 1 get 2nd at
half price!

Offer 2
Get 25% extra!

Which offer is better?
You **must** show all your working.

.....
(Total for question 11 is 4 marks)

12 California Pizza Club is offering 2 deals:

Wow! Deal
One 13-inch pizza
\$7.99

2 for 2 Deal.
Two 7-inch pizzas
\$8.99

Which deal is better?
You **must** show all of your working.

.....
(Total for question 12 is 3 marks)

Leave
blank

- 13** In London, taking a cab for 10 km costs £4.50.
In California, a taxi ride of 10 km costs \$7.35.
The exchange rate is £1 = \$1.35
In which city is the ride cheaper?

.....
(Total for question 13 is 3 marks)

- 14** Mark wants to buy cola for his birthday party.
There are 2 types of packaging available at his local supermarket:
- 280 ml cans for £1.20 each
 - 1000 ml bottles for £4.55 each
- Which packaging has a better value for money?

.....
(Total for question 14 is 2 marks)

15 Jim is thinking about getting a water meter in his new house.

He can pay for water in 2 ways:

Water Meter
Basic charge: \$23.45
plus
87.60p per cubic
meter of water

No Water Meter
\$110 per year

1 cubic meter = 1000 liters

Jim uses an average of 165 liters of water every day.
Should Jim get a water meter?

.....
(Total for question 15 is 5 marks)

16 Ms. Jill is buying juice for her class of 24 kindergartners. There are two types of packaging available.

- 250 ml boxes for \$1.24 each
- 1.5 litre bottles for \$6.99 each

(a) Which packaging offers better value for money?

.....
(2)

Ms. Jill goes to a wholesale store and finds the following offers:

Offer 1: 250 ml boxes, 10 for \$9.99

Offer 2: 1.5 litre boxes, 5 for \$25

(b) Which offer should Ms. Jill choose?

.....
(3)

(Total for question 16 is 5 marks)

17 Jack wants to get gasoline.

He has to choose between 3 offers:

Offer 1:
1 litre
\$1.78

Offer 2:
600 ml
\$1.08

Offer 3:
1.6 litres
\$2.70

Which offer has the best value for money?

.....
(Total for question 17 is 3 marks)

18 Daniel wants to buy 40 cupcakes.
Cup and Cakes has 2 deals:

Sweet Tooth
5 cupcakes
\$7.25

More Cakes
8 cupcakes
\$10.99

What is the difference in the cost of 40 cupcakes if she chooses More Cakes instead of Sweet Tooth?

.....
(Total for question 18 is 4 marks)

19 Charlie wants to buy some chocolate bars.

The corner store has 2 offers:

Buy 2 get 50 percent off on 3rd bar

10% off usual price

If Charlie wants to buy 3 bars, which offer is better?

.....
(Total for question 19 is 4 marks)

20 Ed has to choose between 2 bus services:

WheelReal
Credit card tax: 2.5%
Booking fee: \$2.75

Travel Us
Credit card tax: 1.7%
Booking fee: \$6

Each ticket costs \$45.
Ed intends to pay via credit card.
Which service should Ed choose?

.....
(Total for question 20 is 4 marks)