

Name:

Exam Style Questions

Multipliers



Corbettmaths

Equipment needed: Calculator, Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 236a



Answers and Video Solutions



1. Circle the calculation that will work out 9% of 2000



0.09×2000

0.9×2000

1.09×2000

1.9×2000

(1)

2. Conor is trying to work out 64% of 190



He types 190×0.64 into his calculator.

Has Conor used a correct method?

Explain your answer.

Yes, $64\% = 0.64$, so if he multiplies 190 by 0.64, it will find 64% of 190.

(1)

3. Tianna is trying to work out 40% of 65000



She types 65000×0.04 into her calculator.

Has Tianna used a correct method?

Explain your answer.

No, $40\% = 0.4$ and not 0.04.
Tianna will find 4% of 65000

(1)

4. Write down a multiplier that will find 7% of a quantity.



0.07

(1)

5. Write down a multiplier that will find 80% of a number.



0.8
.....
(1)

6. Write down a multiplier that will find 37.5% of a number.



0.375
.....
(1)

7. Write down a multiplier that will find 2.8% of an amount.



0.028
.....
(1)

8. Write down a multiplier that will find 174% of a number.



1.74
.....
(1)

9. Circle the calculation that will increase 380 by 25%



380×0.25

380×0.75

380×1.025

380×1.25

(1)

10. Circle the calculation that will increase 430 by 6%



430×1.06

430×1.6

430×0.94

430×0.4

(1)

11. Circle the calculation that will decrease 45 by 2%



45×1.2

45×0.8

45×1.02

45×0.98

(1)

12. Noel is trying to decrease 750 by 30%



He types 750×1.3 into his calculator.

Has Noel used a correct method?

Explain your answer.

No, Noel is increasing by 30%

He should type 750×0.7

(1)

13. Write down a multiplier that will increase a number by 42%



1.42

(1)

14. Write down a multiplier that will decrease a number by 21%



0.79

(1)

15. Write down a multiplier that will decrease a number by 10%



0.9

(1)

16. Write down a multiplier that will increase a number by 2.5%



1.025

(1)

17. Write down a multiplier that will decrease a number by 0.8%



0.992

(1)

18. Increase 5900 by 29%



$$5900 \times 1.29$$

7611

(1)

19. Increase 62 by 70%



$$62 \times 1.7$$

105.4

(1)

20. Find 74% of 62000



$$62000 \times 0.74$$

45880

(1)

21. Decrease 8490 by 20%



$$8490 \times 0.8$$

6792

(1)

22. Increase 720 by 6.5%



$$720 \times 1.065$$

766.8

(1)

23. Decrease 8490 by 13%



$$8490 \times 0.87$$

7386.3

(1)

24. Circle the calculation that will decrease 4950 by 1.2%



4950×0.88

4950×0.998

4950×0.988

4950×1.012

$$100 - 1.2 = 98.8$$

(1)

25. Circle the calculation that will increase 90 by 205%



90×2.05

90×2.5

90×1.205

90×3.05

$$100 + 205 = 305$$

(1)

26. Work out 427% of 910



$$910 \times 4.27$$

$$\underline{\quad\quad\quad 3885.7 \quad\quad\quad}$$

(1)

27. Liam multiplies a number by 0.86



He has decreased the number by what percentage?

$$\underline{\quad\quad\quad 14 \quad\quad\quad}$$

%
(1)

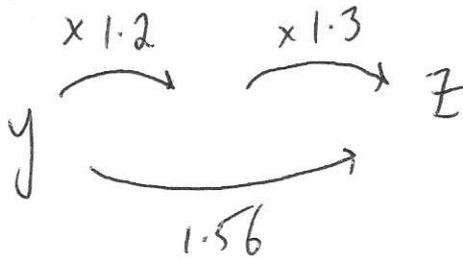
28. Thomas thinks of a number, y .



He increases y by 20%.

Thomas then increases the answer by 30% to get his final result, z .

(a) What number could Thomas multiply y by to get z ?



1.56

.....
(2)

(b) What is the overall percentage increase?

56

.....%
(1)

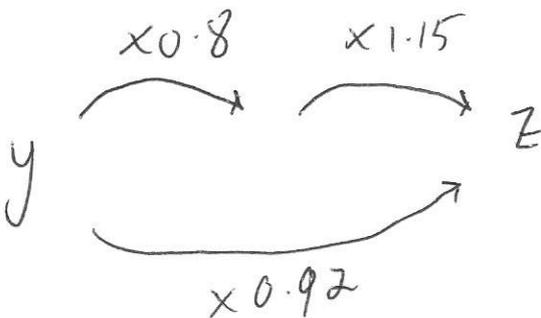
29. The population of a town decreased by 20% between 2004 and 2014.



The population then increased by 15% between 2014 and 2024.

Patrick says that the population in 2024 is 5% less than in 2004.

Show Patrick is incorrect and find the correct percentage decrease.



8

.....%
(5)

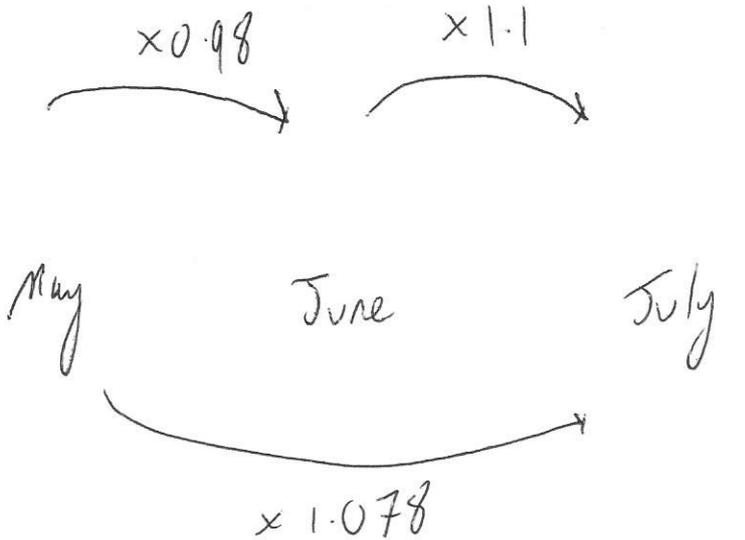
30. The price of a litre of petrol decreased by 2% between May and June.



The price then increased by 10% between June and July.

Matt says the price of a litre of petrol increased by 8% between May and July.

(a) Show Matt is incorrect.



(2)

(b) What is the correct increase in price between May and July?

7.8
.....%
(2)