

Name:

Exam Style Questions

Use of a Calculator



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 352



Answers and Video Solutions



1. Find the value of 86^2



7396

(1)

2. Find the value of $\sqrt{2209}$



47

(1)

3. Find the value of $\sqrt[3]{614.125}$



8.5

(1)

4. Find the value of 3^{10}



59049

(1)

5. Calculate $\sqrt{62}$ correct to 1 decimal place.



$$7.874007874$$

7.9

(2)

6. Find the value of $\sqrt{7.84} + 6.5^2$



Give your answer as a decimal.

45.05

(2)

7. Find the value of each of the following.
Give each answer as a decimal.



(a) 8.3^2

68.89

(1)

(b) $5.2(3.8 - 2.7)$

5.72

(1)

(c) $\frac{2}{3.2}$

0.625

(1)

8. Calculate each of the following.
Give each answer as a decimal.



(a) $\frac{5}{0.4^2}$

31.25

(2)

(b) $5.2^3 + \sqrt{5655.04}$

215.808

(2)

9.

Work out $\frac{1.9 \times 121.5}{30 - 4.35}$



9

(2)

10. Use your calculator to work out the value of



$$\frac{2.12 \times 5.2}{9.21 - 2.8}$$

Give your answer as a decimal.
Write down all the figures on your calculator display.

1.719812793

(2)

11. Use your calculator to work out $\frac{7.2}{9.1 \times 2.8}$ as a decimal.



(a) Write down all the figures on your calculator display.

0.2825745683
.....
(1)

(b) Write your answer to 1 decimal place.

0.3
.....
(1)

-
12. Work the value of $\frac{13.2 + 8.9}{2.3^2}$ as a decimal.



(a) Write down all the figures on your calculator display.

4.177693762
.....
(1)

(b) Write your answer to 1 decimal place.

4.2
.....
(1)

-
13. Calculate $\sqrt[3]{80.43^2}$



Give your answer to 3 decimal places.

18.63282532

18.633
.....
(2)

14. Calculate the value of $\frac{183 + 892}{10.4 \times 8.75}$ as a decimal



(a) Write down all the figures on your calculator display.

11.81318681
.....
(1)

(b) Write your answer to 2 decimal places.

11.81
.....
(1)

15. Work out $13 \div 0.3^2$ as a decimal



(a) Write down all the figures on your calculator display.

144.4444444
.....
(1)

(b) Give your answer to the nearest whole number.

144
.....
(1)

16. Work out $7 \times \sqrt{3}$



Give your answer as a decimal.

Write down all the figures from your calculator display.

12.12435565
.....
(1)

17. Use your calculator to work out



(a) 3^6

729

(1)

(b) the reciprocal of 1.5

$\frac{1}{1.5}$

$\frac{2}{3}$ or $0.\dot{6}$

(1)

(c) the cube root of 6859

19

(1)

18. Calculate the value of



$$\frac{13.2 - 1.29}{39.1 - 44.8}$$

Give your answer as a decimal.

(a) Write down all the figures from your calculator display.

-2.089473684

(1)

(b) Give your answer to three significant figures.

-2.09

(1)

19. Use your calculator to find



$$\sqrt{39.3^2 - 1.24^2}$$

(a) Give all the figures on your calculator display.

39.28043279
.....
(1)

(b) Write your answer to 3 significant figures.

39.3
.....
(1)

20. Calculate $\sqrt[4]{100 - 2.4^3}$



3.046818493
.....
(2)

21. Use your calculator to work out $\frac{91^2 - 3.9}{\sqrt{162 - 4.5^3}}$



(a) Give all the figures on your calculator display.

983.1769002
.....
(1)

(b) Write your answer to 3 significant figures.

983
.....
(1)

22. (a) Use your calculator to work out $\frac{398}{1.98^3} - \sqrt{102}$



Give your answer as a decimal.

Write all the figures on your calculator display.

$$\underline{41.17335013} \quad (1)$$

(b) By rounding 398, 1.98 and 102 to 1 significant figure, check that your answer to (a) is sensible.

Your must show your workings.

$$\approx \frac{400}{2^3} - \sqrt{100}$$

$$\frac{400}{8} - 10$$

$$50 - 10 = 40 \quad \checkmark$$

40 is very close to
41.17...

(2)

23. Calculate $\sqrt{\frac{9080}{(4.7 - 0.866)^3}}$



Give your answer correct to 3 significant figures.

$$12.69301407$$

$$\underline{12.7} \quad (3)$$

24. (a) Use your calculator to work out $\frac{5.03 \times 8.991}{0.4987} - \sqrt[3]{998.6}$



Give your answer as a decimal.

Write all the figures on your calculator display.

$$\underline{\underline{80.68991047}} \quad (1)$$

(b) Use approximations to show that your answer to part (a) is sensible.
You must show your workings.

$$\approx \frac{5 \times 9}{0.5} - \sqrt[3]{1000}$$

$$\frac{45}{0.5} - 10$$

$$90 - 10 = 80 \quad \checkmark$$

80 is very close
to 80.6899...

(2)

25. Using a calculator, work out



$$\sqrt{\frac{\sin 82^\circ}{\cos 82^\circ}}$$

Write your answer to 3 significant figures.

$$2.667465037$$

$$\underline{\underline{2.67}} \quad (2)$$

26. Use your calculator to work out $\sqrt{\frac{\cos 81^\circ + \cos 7^\circ}{\sin 81^\circ - \sin 7^\circ}}$



(a) Give all the figures on your calculator display.

1.151974315

(2)

(b) Write your answer to 3 significant figures.

1.15

(1)

27. Using a calculator, work out



$$\sqrt{\frac{9.44 \times \cos 124^\circ}{3.5^4 - 190}}$$

Write your answer to 3 significant figures.

0.363560243

0.364

(2)