

# Calculator Skills Exact Values

KS3 Maths · Follows the national curriculum

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## 1. Worked example

### Use a calculator to work out $(4.7 + 2.9) \div 1.9$

Step 1 · Estimate first

$$(5 + 3) \div 2 = 4$$

Step 2 · Type it with the brackets

$$(4.7 + 2.9) \div 1.9 =$$

Step 3 · Read the display

4

### Answer: 4

Check: Matches the estimate. Without brackets you would get  $4.7 + 1.526... = 6.226...$ , which is wrong ✓

## 2. Now try one with the steps

### Work out $\sqrt{6.25 + 3.2^2}$

Step 1 · Use the square-root key

\_\_\_\_\_

Step 2 · Use the square key

\_\_\_\_\_

Step 3 · Add

\_\_\_\_\_

### Answer:

\_\_\_\_\_

## 3. Practice

Show your working. The marks tell you how much is expected.

1. Use a calculator to work out  $3.6 \times 4.25$  [1]

\_\_\_\_\_  
\_\_\_\_\_

2. Use a calculator to work out  $(8.4 + 6.1) \div 2.5$  [1]

\_\_\_\_\_  
\_\_\_\_\_

3. Use a calculator to work out  $\sqrt{17.64}$  [1]

\_\_\_\_\_  
\_\_\_\_\_

4. Which is exact: 1.732 or  $\sqrt{3}$ ? [1]
- \_\_\_\_\_
- \_\_\_\_\_
5. Your calculator shows 6.3 when you work out a cost in pounds. Write the cost correctly. [1]
- \_\_\_\_\_
- \_\_\_\_\_
6. Use a calculator to work out  $3.4^3$  [1]
- \_\_\_\_\_
- \_\_\_\_\_
7. Write 3.5 hours in hours and minutes. [1]
- \_\_\_\_\_
- \_\_\_\_\_
8. Work out  $(5.2 + 3.7) \div (1.8 - 0.9)$ . Give your answer to 2 decimal places. [2]
- \_\_\_\_\_
- \_\_\_\_\_
9. Find the area of a circle with radius 4 cm. Leave your answer in terms of  $\pi$ . [1]
- \_\_\_\_\_
- \_\_\_\_\_
10. Find the circumference of a circle with diameter 9 cm, to 1 decimal place. [2]
- \_\_\_\_\_
- \_\_\_\_\_
11. Write 4.15 hours in hours and minutes. [2]
- \_\_\_\_\_
- \_\_\_\_\_
12. Use a calculator to work out  $(-2.5)^2 - 4 \times 1.2$  [2]
- \_\_\_\_\_
- \_\_\_\_\_
13. Work out  $\sqrt{(12.5^2 - 3.5^2)}$  [2]
- \_\_\_\_\_
- \_\_\_\_\_
14. Write  $1/7$  decimal rounded to 3 decimal places. [1]
- \_\_\_\_\_
- \_\_\_\_\_

15. A taxi charges £2.80 plus £1.65 per mile. How much does a 7.4-mile journey cost?

[2]

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#### 4. Before you hand it in

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**Typing  $12 + 8 \div 4$  to work out  $(12 + 8)/4$  and getting 14**

Put brackets round the top and bottom of any fraction:  $(12 + 8) \div 4 = 5$ , or use the fraction key.

**Typing  $-3^2$  to square negative three and getting -9**

Type  $(-3)^2$  to get 9. Brackets keep the negative sign with the number.

**Reading 2.75 hours as 2 hours 75 minutes**

An hour has 60 minutes, not 100.  $0.75 \times 60 = 45$ , so 2.75 hours = 2 hours 45 minutes.

**Rounding in the middle of a calculation, e.g. using 31.4 for  $10\pi$  and then multiplying by 20**

Keep the full value on the calculator (use the answer key or memory) and round only the final answer.