# ROUND TO THE NEAREST 10, 100 OR 1000

BUILDING BLOCKS

NAME _____ CLASS _____ DATE _____

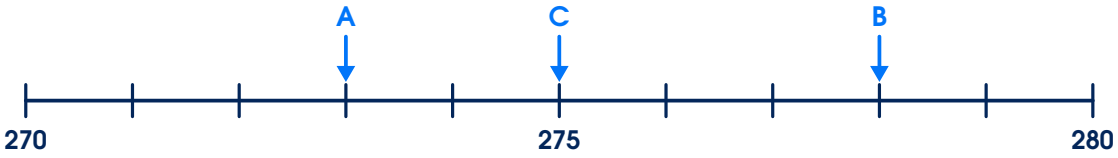
**KEY IDEA**

**523 is closer to 520 than to 530,**
**so 523 rounds to 520 to the nearest 10.**

Halfway numbers round to the greater multiple: 525 → 530




**1** Use the number line to round each number to the nearest 10.




A: 273 → ☐ B: 278 → ☐ C: 275 → ☐

**2** Round each number to the nearest 10. Use the number line to help.

a) 64 

☐

b) 128 

☐

c) 455 

☐

d) 3002 

☐

**3** Round each number to the nearest 100. Use the number line to help.

a) 230 

☐

b) 1870 

☐

c) 650 

☐

d) 4049 

☐

**4** Fill in the missing multiples of 100.

**382 lies between** ☐ **and** ☐

**It is closer to** ☐ **, so 382 rounds to** ☐ **to the nearest 100.**

# ROUND TO THE NEAREST 10, 100 OR 1000

SUPPORT

NAME _____ CLASS _____ DATE _____

**KEY IDEA**

**Find the two multiples the number lies between, then decide which is nearer.**

6318 is nearer 6000, so 6318 ≈ 6000 (nearest 1000)




**1** Complete the table.

| NUMBER | LOWER MULTIPLE OF 100 | UPPER MULTIPLE OF 100 | NEAREST 100 |
|---|---|---|---|
| 742 | | | |
| 3165 | | | |
| 8950 | | | |

**2** Round each number to the nearest 1000.

a) **4721** ____ b) **12 380** ____

c) **3185** ____ d) **69 500** ____

**3** Round 5682 to...

the nearest 10 ____ the nearest 100 ____ the nearest 1000 ____

**4** Is each statement true or false? Circle your answer.

a) 1635 rounded to the nearest 100 is 1700 TRUE FALSE

b) 2450 rounded to the nearest 100 is 2500 TRUE FALSE

c) 8004 rounded to the nearest 1000 is 8000 TRUE FALSE

d) 15 rounded to the nearest 10 is 10 TRUE FALSE

# ROUND TO THE NEAREST 10, 100 OR 1000

CORE

NAME _____ CLASS _____ DATE _____

**KEY IDEA**

Find the two multiples the number lies between and decide which it is nearer; numbers exactly halfway round to the greater multiple. 47 382 to the nearest 1000 lies between 47 000 and 48 000. 382 is less than 500, so 47 382 ≈ 47 000

## FLUENCY

**1** Complete the table.

| NUMBER | NEAREST 10 | NEAREST 100 | NEAREST 1000 | NEAREST 10 000 |
|---|---|---|---|---|
| 38 465 | | | | |
| 204 950 | | | | |

**2** The population of a city is 2 486 517. Round it to the...

a) nearest 100 000 _____

b) nearest 1 000 000 _____

c) nearest 10 000 _____

## REASONING

**3** An integer rounds to 3700 to the nearest 100.

a) What is the smallest integer it could be? _____

b) What is the greatest integer it could be? _____

**4** Lily says, "If a number rounds to 3000 to the nearest 1000, it also rounds to 3000 to the nearest 100." Give an example to show that Lily is wrong.

.....

.....

# ROUND TO THE NEAREST 10, 100 OR 1000

GREATER DEPTH

NAME _____ CLASS _____ DATE _____

## REASONING

**1** Is each statement always, sometimes or never true? Circle your answer.

If it is sometimes true, give an example of when it is true and when it is not.

**a)** Rounding to the nearest 100 makes it smaller. ALWAYS SOMETIMES NEVER

**b)** Rounding to the nearest 1000 gives a multiple of 100. ALWAYS SOMETIMES NEVER

**c)** Rounding to the nearest 10 changes it by 5 or less. ALWAYS SOMETIMES NEVER

## PROBLEM SOLVING

**2** Who am I? I am a 4-digit number.

Rounded to the nearest 10, I am 4560. Rounded to the nearest 100, I am 4600.

My digits add up to 19. **Find both numbers I could be.** ☐ ☐

**3** Tom rounds 2449 to the nearest 10. He rounds his answer to the nearest 100, then rounds that to the nearest 1000.

**a)** What answer does Tom get? ☐

**b)** What is 2449 rounded straight to the nearest 1000? ☐

**c)** Explain why Tom's method gives the wrong answer.

## ★ CHALLENGE FOR ALL

**4** Make 4-digit numbers using each card once. 2 4 5 8

**a)** Find the smallest number that rounds to 5000 to the nearest 1000. ☐

**b)** Find all three numbers that round to 8500 to the nearest 100.

☐ ☐ ☐

**c)** Find both numbers that round to 2000 (nearest 1000) and to 2500 (nearest 100).

☐ ☐

# ROUND TO THE NEAREST 10, 100 OR 1000

ANSWERS

## BUILDING BLOCKS

1 A: 273 → 270 · B: 278 → 280 · C: 275 → 280 (halfway rounds to the greater multiple)

2 a) 60 · b) 130 · c) 460 · d) 3000

3 a) 200 · b) 1900 · c) 700 · d) 4000

4 382 lies between 300 and 400. It is closer to 400, so 382 rounds to 400

## SUPPORT

1 742: 700, 800 → 700 · 3165: 3100, 3200 → 3200 · 8950: 8900, 9000 → 9000

2 a) 5000 · b) 12 000 · c) 3000 · d) 70 000

3 5680 · 5700 · 6000

4 a) False (1600) · b) True · c) True · d) False (20)

## CORE

1 38 465: 38 470, 38 500, 38 000, 40 000 · 204 950: 204 950, 205 000, 205 000, 200 000

2 a) 2 500 000 · b) 2 000 000 · c) 2 490 000

3 a) 3650 · b) 3749

4 Any number from 2500 to 3499 that is not between 2950 and 3049, e.g. 3200 rounds to 3000 to the nearest 1000 but to 3200 to the nearest 100

## GREATER DEPTH

1 a) Sometimes, e.g. 340 → 300 but 360 → 400 (and 300 → 300) · b) Always (every multiple of 1000 is a multiple of 100) · c) Always (the furthest is a halfway number such as 45 → 50)

2 4555 and 4564 (the number is from 4555 to 4564)

3 a) 2449 → 2450 → 2500 → 3000 · b) 2000 · c) each rounding moves the number further; 2449 is less than 2500, so it is nearer 2000. Always round the original number

★ a) 4528 · b) 8452, 8524, 8542 · c) 2458, 2485