

Standard Form: Large Numbers

ANSWERS

1

Write 3000 in standard form.

$$3000 = 300 \times 10$$

$$3000 = 30 \times 10 \times 10$$

$$3000 = 3 \times 10 \times 10 \times 10$$

$$3000 = 3 \times 10^3$$

2

Write 50 000 in standard form.

$$50\,000 = 5000 \times 10$$

$$50\,000 = 500 \times 10 \times 10$$

$$50\,000 = 50 \times 10 \times 10 \times 10$$

$$50\,000 = 5 \times 10 \times 10 \times 10 \times 10$$

$$50\,000 = 5 \times 10^4$$

3

Write 400 in standard form.

$$400 = 40 \times 10$$

$$400 = 4 \times 10 \times 10$$

$$400 = 4 \times 10^2$$

4

Write 7000 in standard form.

$$7000 = 700 \times 10$$

$$7000 = 70 \times 10 \times 10$$

$$7000 = 7 \times 10 \times 10 \times 10$$

$$7000 = 7 \times 10^3$$

5

Write 20 000 in standard form.

$$20\,000 = 2000 \times 10$$

$$20\,000 = 200 \times 10 \times 10$$

$$20\,000 = 20 \times 10 \times 10 \times 10$$

$$20\,000 = 2 \times 10 \times 10 \times 10 \times 10$$

$$20\,000 = 2 \times 10^4$$

6

Write 600 in standard form.

$$600 = 60 \times 10$$

$$600 = 6 \times 10 \times 10$$

$$600 = 6 \times 10^2$$

7

Write 4×10^3 as an ordinary number.

$$4 \times 10^3 = 4 \times 10 \times 10 \times 10$$

$$= 40 \times 10 \times 10$$

$$= 400 \times 10$$

$$= 4000$$

8

80 000 people go to a festival.
Write 80 000 in standard form.

$$80\,000 = 8000 \times 10$$

$$80\,000 = 800 \times 10 \times 10$$

$$80\,000 = 80 \times 10 \times 10 \times 10$$

$$80\,000 = 8 \times 10 \times 10 \times 10 \times 10$$

$$80\,000 = 8 \times 10^4$$

Standard Form: Large Numbers *further practice*

ANSWERS

9



Write 8000 in standard form.

$$8000 = 800 \times 10$$

$$8000 = 80 \times 10 \times 10$$

$$8000 = 8 \times 10 \times 10 \times 10$$

$$8000 = 8 \times 10^3$$

10



Write 90 in standard form.

$$90 = 9 \times 10$$

$$90 = 9 \times 10^1$$

11



Write 6×10^4 as an ordinary number.

$$6 \times 10^4 = 6 \times 10 \times 10 \times 10 \times 10$$

$$= 60 \times 10 \times 10 \times 10$$

$$= 600 \times 10 \times 10$$

$$= 6000 \times 10$$

$$= 60\,000$$

12



A farm has 30 000 chickens.
Write 30 000 in standard form.

$$30\,000 = 3000 \times 10$$

$$30\,000 = 300 \times 10 \times 10$$

$$30\,000 = 30 \times 10 \times 10 \times 10$$

$$30\,000 = 3 \times 10 \times 10 \times 10 \times 10$$

$$30\,000 = 3 \times 10^4$$

13



A bag of rice weighs 5×10^2 g.
Write this as an ordinary number.

$$5 \times 10 \times 10$$

$$= 50 \times 10 = 500$$

Answer 500 g

14



Which is bigger, 7×10^3 or 1×10^4 ?

$$7 \times 10^3 = 7000$$

$$1 \times 10^4 = 10\,000$$

Answer 1×10^4

15



Write in order, smallest first:
 3×10^2 , 2×10^3 , 9×10^1 .

$$3 \times 10^2 = 300$$

$$2 \times 10^3 = 2000$$

$$9 \times 10^1 = 90$$

$$9 \times 10^1 \quad 3 \times 10^2 \quad 2 \times 10^3$$

16



Sam says $40\,000 = 4 \times 10^5$ because
40 000 has 5 digits.
Is Sam right? Explain.

$$40\,000 = 4 \times 10 \times 10 \times 10 \times 10$$

Sam is wrong. 40 000 has 4 tens.

$$\text{so } 40\,000 = 4 \times 10^4$$