



**THIRD SPACE
LEARNING**

Word Problems

**11 number and base 10
questions to develop reasoning
and problem solving skills**

Grade 4

Questions

Name:

Date:

- 1 Complete the table to show the place value of each digit in the given number. If the number doesn't include a 9, 4, 0, 7 or 2, leave the box blank.

Number	Value of 9	Value of 4	Value of 0	Value of 7	Value of 2
2,345		4 tens			2 thousands
76,029					
569,012					
679,021					
49,072					
59,021					

- 2 Stadiums around the world have different seating capacities. Round the capacity of each stadium to the nearest 10,000, 1,000 and 100.

Stadium	Capacity	Nearest 10,000	Nearest 1,000	Nearest 100
Michigan Stadium	107,601			
Ohio Stadium	102,780			
Melbourne Cricket Ground	100,024			
FNB Stadium	94,736			
Shah Alam Stadium	80,372			

- 3 A pet store is filling up fish tanks with filtered water. The store has 1,416 gallons of filtered water. Each fish tank needs 6 gallons of water. How many fish tanks can they fill?

Answer

- 4 Each bag of grapes weighs 32 ounces. A grocery store has 47 bags of grapes. How many ounces of grapes does the store have?

Answer

- 5 A store sold 2,485 bottles of water in March and 1,397 bottles of water in April. How many bottles of water did the store sell in March and April?

Answer

- 6 A tour guide is comparing distances between famous places. Complete the statements.

a This building is 10 times older than the 345 year old building we just saw. This building is years old.

b This city is 100 times smaller than it was before. Before it had 84,000 people, but now it has people.

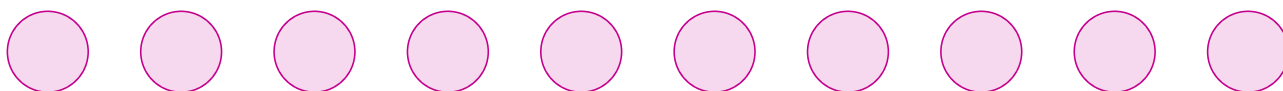
- 7 A principal receives 650 free pencils. She decides to share them equally between the 7 second grade teachers. How many pencils does each teacher get? How many pencils are left over?

Answer

- 8 Hakeem, Pearse, and Shira grow sunflowers from seeds.
- Hakeem's sunflower grows 10cm every week for a year.
(52 weeks = 1 year)
 - Pearse's sunflower grows 100cm every month for a year.
(12 months = 1 year)
 - Shira's sunflower grows 200cm every 3 months for a year.
- Who will have the tallest sunflower at the end of the year?

Answer

- 9 Seren has got 10 counters to represent different numbers using the place value chart shown below. At least one counter must go in each column.



Thousands Group					
H Th	T Th	Th	H	T	O

Show the largest AND smallest 5-digit number Seren can make, then compare them using $<$ or $>$.

- 10 Dixon scored 1,372 points in Level 1. Dixon then lost 468 points in Level 2. How many points does Dixon have now?

Answer

Challenge Question!

Roman numerals use letters instead of numbers.

I = 1

V = 5

X = 10

L = 50

C = 100

D = 500

M = 1,000

Robert was born in MMII

Tom was born in MMXIII

Anna was born in MMVII

- a What is the difference between Robert and Tom's age?

- b What is the difference between Anna and Tom's age?

- c Xavier is 9 years younger than Tom. Write the year Xavier was born with Roman numerals.

Answers

Question number	Question	Answers	Standard
1	Complete the table to show the place value of each digit in the given number. If the number doesn't include a 9, 4, 0, 7 or 2, leave the box blank. (see diagram)	76,029: 9 = 9 ones, no 4, 0 = 0 hundreds, 7 = 7 ten thousands, 2 = 2 tens 569,012: 9 = 9 thousands, no 4, 0 = 0 hundreds, no 7, 2 = 2 ones 679,021: 9 = 9 thousands, no 4, 0 = 0 hundreds, 7 = 7 ten thousands, 2 = 2 ones 49,072: 9 = 9 thousands, 4 = 4 ten thousands, 0 = 0 hundreds, 7 = 7 tens, 2 = 2 ones 59,021: 9 = 9 thousands, no 4, 0 = 0 hundreds, no 7, 2 = 2 tens	4.NBT.A.2
2	Stadiums around the world have different seating capacities. Round the capacity of each stadium to the nearest 10,000, 1,000 and 100. Michigan Stadium: 107,601 Ohio Stadium: 102,780 Melbourne Cricket Ground: 100,024 FNB Stadium: 94,736 Shah Alam Stadium: 80,372	Michigan Stadium: 110,000, 108,000 and 107,600 Ohio Stadium: 100,000, 103,000 and 102,800 Melbourne Cricket Ground: 100,000, 100,000 and 100,000 FNB Stadium: 90,000, 95,000 and 94,700 Shah Alam Stadium: 80,000, 80,000 and 80,400	4.NBT.A.3
3	A pet store is filling up fish tanks with filtered water. The store has 1,416 gallons of filtered water. Each fish tank needs 6 gallons of water. How many fish tanks can they fill?	$1,416 \div 6 = 236$ *solved using models, place value strategies, or properties of operations	4.NBT.B.6

Question number	Question	Answers	Standard
4	Each bag of grapes weighs 32 ounces. A grocery store has 47 bags of grapes. How many ounces of grapes does the store have?	$32 \times 47 = 1,504$ ounces *solved using models, place value strategies, or properties of operations	4.NBT.B.5
5	A store sold 2,485 bottles of water in March and 1,397 bottles of water in April. How many bottles of water did the store sell in March and April?	$2,485 + 1,397 = 3,882$ water bottles *solved using the standard algorithm	4.NBT.B.4
6	Complete the statements. a) This building is 10 times older than the 345 year old building we just saw. This building is ? years old. b) This city is 100 times smaller than it was before. Before it had 84,000 people, but now it has ? people.	a) This building is 10 times older than the 345 year old building we just saw. This building is 3,450 years old. b) This city is 100 times smaller than it was before. Before, it had 84,000 people, but now it has 840 people.	4.NBT.A.1
7	A principal receives 650 free pencils. She decides to share them equally between the 7 second grade teachers. How many pencils does each teacher get? How many pencils are left over?	$650 \div 7 = 92$ with 6 pencils left over *solved using models, place value strategies, or properties of operations	4.NBT.B.6
8	Hakeem, Pearse, and Shira grow sunflowers from seeds. Who will have the tallest sunflower at the end of the year?	Pearse will have the largest sunflower at the end of the year. ($10\text{cm} \times 52 = 520\text{cm}$, $100\text{cm} \times 12 = 1,200\text{cm}$, $200\text{cm} \times 4 = 800\text{cm}$)	4.NBT.A.1 4.NBT.B.5

Question number	Question	Answers	Standard
9	Seren has 10 counters to represent different numbers using the place value chart shown below. At least one counter must go in each column. Show the largest AND smallest 5-digit number Seren can make. Then compare them using < or >.	$511,111 > 111,115$	4.NBT.A.2
10	Dixon scored 1,372 points in Level 1. Dixon then lost 468 points in Level 2. How many points does Dixon have now?	$1,372 - 468 = 904$ points *solved using the standard algorithm	4.NBT.B.4
Challenge Question	Robert was born in MMLI Tom was born in MMXIII Anna was born in MMVll a) What is the difference between Robert and Tom's age? b) What is the difference between Anna and Tom's age? c) Xavier is 9 years younger than Tom. Write the year Xavier was born with Roman numerals.	(Robert: 2002, Tom: 2013, Anna: 2007) a) Robert is 11 years older than Tom. b) Anna is 6 years older than Tom. c) Xavier was born in MMXXII (2022)	4.NBT.B.4

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