Merit Tutoring

Worksheet 1

Year 3 Mathematics — Australian Curriculum v9.0
Subtopic: Represent and Order Numbers Beyond 10 000

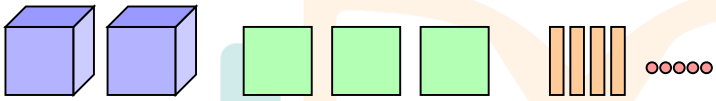
Name: _____ **Date:** _____

Score: _____ / 30

Section 1: Fluency (Questions 1–10)

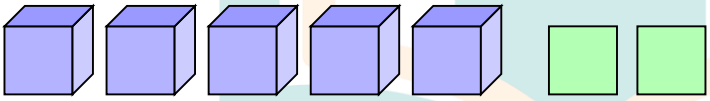
Instructions: Write the number shown by these Base-10 Blocks.

Question 1:



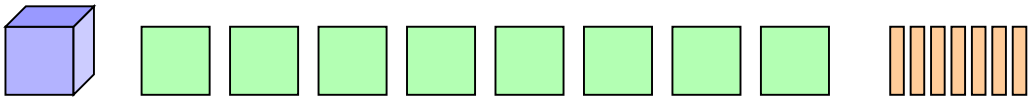
Answer: _____

Question 2:



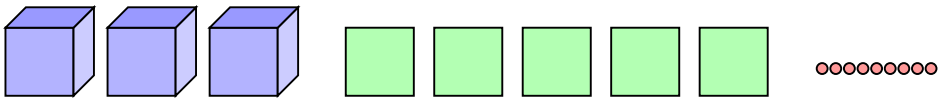
Answer: _____

Question 3:



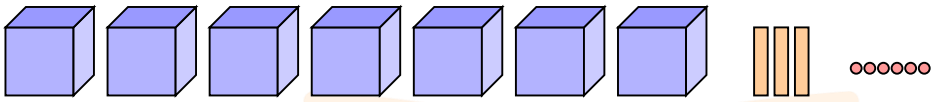
Answer: _____

Question 4:



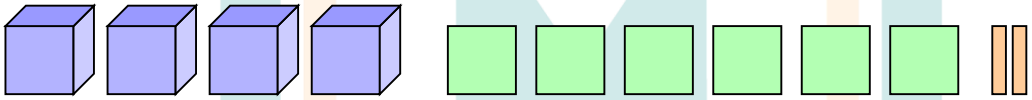
Answer: _____

Question 5:



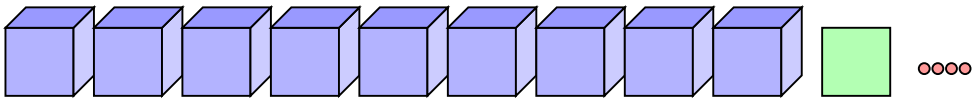
Answer: _____

Question 6:



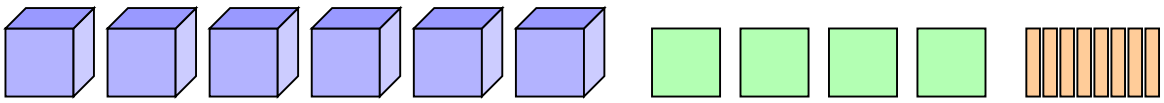
Answer: _____

Question 7:



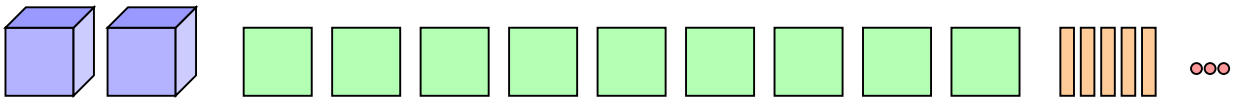
Answer: _____

Question 8:



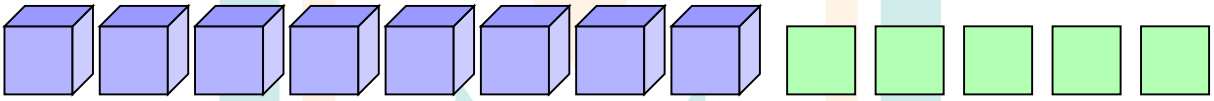
Answer: _____

Question 9:



Answer: _____

Question 10:



Answer: _____

Good Job!

Why was six afraid of seven? Because seven eight (ate) nine!

Section 2: Reasoning (Questions 11–20)

Instructions: Solve these word problems using Australian contexts.

Question 11: There are 3 245 koalas in one national park and 4 789 koalas in another national park. How many koalas are there altogether?

Answer: _____

Question 12: A farmer planted 12 450 gum trees over five years. If he planted 2 300 trees in the first year, how many trees did he plant in the remaining four years?

Answer: _____

Question 13: The distance from Sydney to Brisbane is approximately 9 236 kilometres. Round this distance to the nearest thousand.

Answer: _____

Question 14: A school library has 8 567 books. They receive a donation of 1 234 more books. How many books does the library have now?

Answer: _____

Question 15: At a cricket match, 15 678 people attended on Saturday and 12 345 people attended on Sunday. How many more people attended on Saturday than Sunday?

Answer: _____

Question 16: A wildlife sanctuary counted 6 789 wombats, 4 321 wallabies, and 2 150 echidnas. How many animals did they count in total?

Answer: _____

Question 17: The Great Barrier Reef is home to approximately 10 000 species of sponges and corals. If 3 456 species are sponges, how many species are corals?

Answer: _____

Question 18: A mining company extracted 23 789 tonnes of iron ore in January and 19 234 tonnes in February. What was the total amount of iron ore extracted across both months?

Answer: _____

Question 19: Melbourne's population is approximately 5 078 000. Write this number in words.

Answer: _____

Question 20: A kangaroo can hop up to 13 500 metres in one hour. A wallaby can hop 8 750 metres in the same time. How much further can a kangaroo hop than a wallaby?

Answer: _____

Good Job!

What did the zero say to the eight? Nice belt!

Section 3: Challenge (Questions 21–30)

Instructions: Use critical thinking and place value knowledge to solve these puzzles.

Question 21: I am a 5-digit number. My tens digit is 3. My thousands digit is twice my tens digit. My hundreds digit is 4. My ten thousands digit is 1. My ones digit is 5. What number am I?

Answer: _____

Question 22: Arrange these numbers in ascending order: 14 567 14 765 14 576 14 657

Answer: _____

Question 23: What is the largest 5-digit number you can make using the digits 2, 8, 5, 1, and 9 (use each digit exactly once)?

Answer: _____

Question 24: A mystery number is between 20 000 and 30 000. The sum of its digits is 15. All its digits are odd numbers. What could this number be? (Give one possible answer)

Answer: _____

Question 25: If you add 2 500 to a number, you get 15 340. What was the original number?

Answer: _____

Question 26: Which number is exactly halfway between 12 000 and 18 000?

Answer: _____

Question 27: I am thinking of a number. When I round it to the nearest thousand, I get 16 000. What is the smallest number I could be thinking of?

Answer: _____

Question 28: Complete the pattern: 10 500 11 000 11 500 _____ 12 500

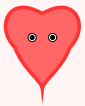
Answer: _____

Question 29: A number has 8 in the thousands place, 0 in the hundreds place, 6 in the tens place, and 2 in the ones place. If the ten thousands digit makes the total value 38 062, what is the ten thousands digit?

Answer: _____

Question 30: Subtract 4 789 from 20 000. What is your answer?

Answer: _____



Good Job!

What do you call a number that can't stay in one place? A roamin' numeral!

Well Done! You've completed Worksheet 1!

Answer Key — Worksheet 1

Year 3 Mathematics

Section 1: Fluency

1. 2 345
2. 5 200
3. 1 870
4. 3 509
5. 7 036
6. 4 620
7. 9 104
8. 6 480
9. 2 953
10. 8 700

Section 2: Reasoning

11. 8 034 koalas
12. 10 150 trees
13. 9 000 kilometres
14. 9 801 books
15. 3 333 people
16. 13 260 animals
17. 6 544 species
18. 43 023 tonnes
19. Five million, seventy-eight thousand
20. 4 750 metres

Section 3: Challenge

21. 16 435
22. 14 567, 14 576, 14 657, 14 765
23. 98 521
24. 21 135 (or 21 315, 21 513, 23 115, etc.)
25. 12 840
26. 15 000
27. 15 500
28. 12 000
29. 3
30. 15 211

Worksheet 2

Year 3 Mathematics — Australian Curriculum v9.0
Subtopic: Represent and Order Numbers Beyond 10 000

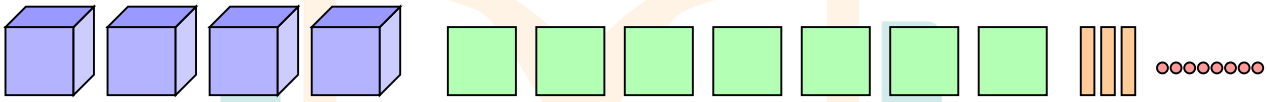
Name: _____ **Date:** _____

Score: _____ / 30

Section 1: Fluency (Questions 1–10)

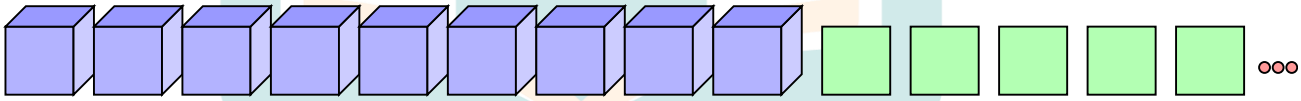
Instructions: Write the number shown by these Base-10 Blocks.

Question 1:



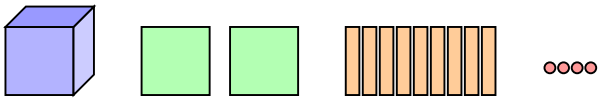
Answer: _____

Question 2:



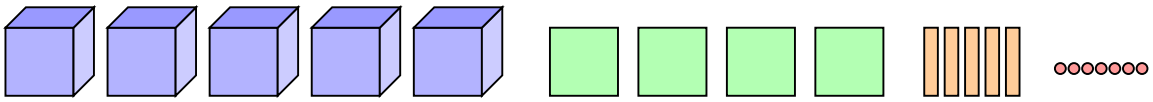
Answer: _____

Question 3:



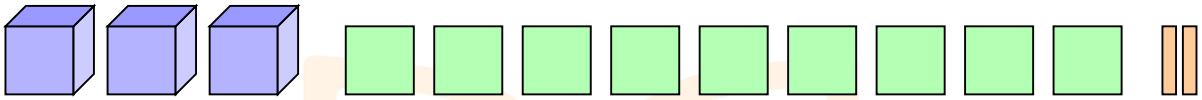
Answer: _____

Question 4:



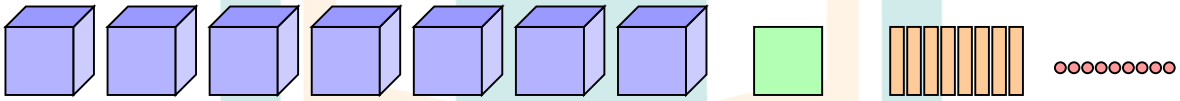
Answer: _____

Question 5:



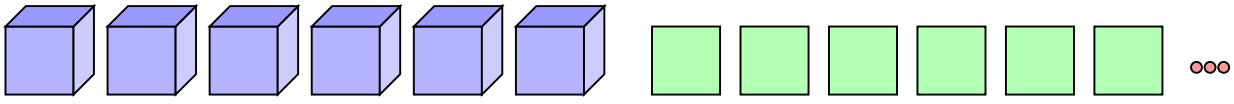
Answer: _____

Question 6:



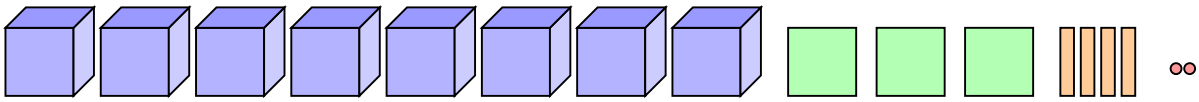
Answer: _____

Question 7:



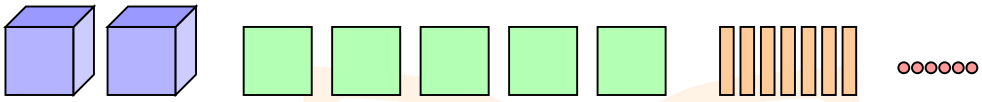
Answer: _____

Question 8:



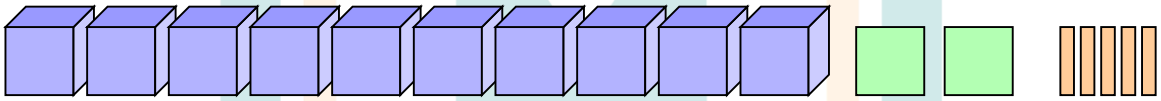
Answer: _____

Question 9:



Answer: _____

Question 10:



Answer: _____

Good Job!

What do you call a kangaroo who loves maths? A kanga-calculator!

Section 2: Reasoning (Questions 11–20)

Instructions: Solve these word problems using Australian contexts.

Question 11: The Sydney Opera House has hosted 25 678 performances since opening. If 12 345 were concerts, how many were other types of performances?

Answer: _____

Question 12: A sheep station in Western Australia has 18 934 sheep. They sell 3 456 sheep at the market. How many sheep remain on the station?

Answer: _____

Question 13: Uluru is approximately 9 400 metres around its base. Round this measurement to the nearest thousand.

Answer: _____

Question 14: A gold mine produced 14 567 ounces of gold in one year and 16 234 ounces the next year. What was the total production over the two years?

Answer: _____

Question 15: The Australian Electoral Commission counted 16 789 012 votes in an election. Write this number in words.

Answer: _____

Question 16: A platypus sanctuary has 4 567 visitors in summer and 2 893 visitors in winter. How many more visitors came in summer?

Answer: _____

Question 17: The distance from Perth to Adelaide is approximately 27 800 kilometres by road. If you've already driven 13 450 kilometres, how much further do you need to travel?

Answer: _____

Question 18: A bottling plant filled 45 678 bottles on Monday and 38 912 bottles on Tuesday. How many bottles were filled altogether?

Answer: _____

Question 19: The Great Ocean Road attracts approximately 30 000 visitors each week. How many visitors would that be over 4 weeks?

Answer: _____

Question 20: A paper mill recycled 56 789 tonnes of paper. If 23 456 tonnes came from newspapers, how many tonnes came from other sources?

Answer: _____

Good Job!

Why did the student do multiplication problems on the floor?
The teacher told them not to use tables!

Section 3: Challenge (Questions 21–30)

Instructions: Use critical thinking and place value knowledge to solve these puzzles.

Question 21: I am a 5-digit number. My ones digit is 7. My hundreds digit is double my ones digit. My tens digit is 0. My thousands digit is 5. My ten thousands digit is 2. What number am I?

Answer: _____

Question 22: Arrange these numbers in descending order: 23 456 23 645 23 564 23 465

Answer: _____

Question 23: What is the smallest 5-digit number you can make using the digits 7, 3, 9, 1, and 5 (use each digit exactly once)?

Answer: _____

Question 24: A mystery number is between 40 000 and 50 000. The sum of its digits is 20. All its digits are even numbers. What could this number be? (Give one possible answer)

Answer: _____

Question 25: If you subtract 3 750 from a number, you get 18 240. What was the original number?

Answer: _____

Question 26: Which number is exactly halfway between 24 000 and 32 000?

Answer: _____

Question 27: I am thinking of a number. When I round it to the nearest thousand, I get 25 000. What is the largest number I could be thinking of?

Answer: _____

Question 28: Complete the pattern: 15 000 16 500 18 000 _____ 21 000

Answer: _____

Question 29: A number has 4 in the thousands place, 9 in the hundreds place, 2 in the tens place, and 8 in the ones place. If the ten thousands digit makes the total value 54 928, what is the ten thousands digit?

Answer: _____

Question 30: Add 8 765 to 12 345. What is your answer?

Answer: _____

Good Job!

What's a maths teacher's favourite season? Sum-mer!

Fantastic! You've completed Worksheet 2!

Answer Key — Worksheet 2

Year 3 Mathematics

Section 1: Fluency

1. 4 738
2. 9 506
3. 1 294
4. 5 457
5. 3 920
6. 7 189
7. 6 603
8. 8 342
9. 2 576
10. 10 250

Section 2: Reasoning

11. 13 333 performances
12. 15 478 sheep
13. 9 000 metres
14. 30 801 ounces
15. Sixteen million, seven hundred eighty-nine thousand, twelve
16. 1 674 visitors
17. 14 350 kilometres
18. 84 590 bottles
19. 120 000 visitors
20. 33 333 tonnes

Section 3: Challenge

21. 25 507
22. 23 645, 23 564, 23 465, 23 456
23. 13 579
24. 42 086 (or 42 680, 44 084, 46 082, etc.)
25. 21 990
26. 28 000
27. 25 499
28. 19 500
29. 5
30. 21 110