**Year 3 Problem Solving**

1. James scored 28 runs and 15 runs in a cricket game. How many runs did he score altogether?
2. Mary runs 5 laps of the oval 3 days a week. How many laps is this altogether?
3. Class 4P has 20 pupils. If 7 of them are sick, how many are at school?
4. In a horse race there are 6 horses and 5 jockeys. How many legs are there altogether?
5. Marcus has 1 dozen eggs but unfortunately dropped them and broke ¼ of them. How many were broken?
6. Michael, Mark, June and Sally each ate 6 cakes. How many cakes were eaten altogether?
7. Sally, Tom, Miranda and Janet all shared 20 chocolates. How many chocolates did they receive each?
8. Nan baked 37 cakes. If she ate 5 of them and Janet ate 6, how many were left?
9. Mark drew 9 pentagons on a piece of paper. How many sides did he draw altogether?
10. A pizza is cut into 8 pieces. If ¼ of the pizza is eaten, how many pieces remain?
11. Mark bought an old bike for $53 and a printer for $23 How much did he spend?
12. Alison bought a pair of shoes for $73 and a bag for $62. How much did she spend?
13. Jasmine bought a new dress to go to the party for $74 and a present for $23. How much did she spend?
14. There were 3 tricycles and 8 cars. How many tyres were there altogether?
15. On the beach there were 7 pairs of sandals and 4 pairs of thongs. How many pieces of footwear were there?
16. There were 35 women in a race and 54 men. How many competitors were there altogether?
17. Jack drew 5 triangles plus 4 squares. How many sides did he draw altogether?
18. Mark had 70 football cards. If he lost 43 o them, how many would he have left?
19. Karen swims 9 laps a day. How many laps would she swim in 6 days?
20. Michael had $98 but spent $8 on a book and $7 on a calculator. How much money did he have left?
21. Jessica scored 6 tries worth 4 points each and 4 goals worth 2 points each. How many points did he score altogether?
22. Our hens laid 32 eggs on Saturday and 26 on Sunday. How many did they lay over the weekend?
23. Farmer brown sheared 6 sheep on Monday, 8 on Tuesday and 9 on Wednesday. How many sheep has he shorn?
24. If 39 cows were milked this morning and 39 were milked in the afternoon, how many cows were milked today?
25. The water tank has 72 L of water. If a further 68 L of water are added, how much water will there be in the tank?
26. Mr Ling bought a new shirt for $58, shorts for $27 and a pair of shoes for $19. How much did Mr Ling spend?
27. James made 58 cup cakes for the fete but 37 of them didn’t rise. How many were left?
28. 4 children stayed at Lionel’s house. They cooked 12 sausages for lunch. How many could they have each?
29. 7 children attended a party. Each child blew up 3 balloons. If 4 burst, how many were left?
30. Baseballs cost the school $8 each. If the teacher had $25 to buy them, how many could she buy?
31. James had 38 marbles but lost 3 and gave 7 to Melissa. How many did he have left?
32. Brent had $68 which is exactly $23 more than Lucinda. How much does Lucinda have?
33. 33 people were on the bus. If 12 more got on at the next stop and 4 got off, how many are left on the bus?
34. Mum bought 4 dozen cans of soft drink for the party. If 26 were drunk, how many are left?
35. Janet saved $55 in Mark and $63 in June. What was her total savings for the 2 months?
36. There was a group of 4 boys and 6 girls. How many toes are there altogether?
37. Vaughn said there was only 7 weeks of school left in the term. How many days of school is this?
38. Jane saved $14 in March and $28 in April. How much more does she need to buy a pair of boots worth $50?
39. Larry has $35 but Jim has $20 more than Larry. How much money does Jim have?
40. Chloe has $32 and Michael has $3 more than Chloe. How much money do they have altogether.
41. Antoine scored 5 strokes on each of the 7 holes of golf. Jane’s score was 7 more than Antoine’s. What was Jane’s score?
42. Alexandra swam for 30 minutes then 25 minutes. How much longer does he need to swim to complete an hour?
43. Markus scored 64 runs and 78 runs in his first test match. What was his total score?
44. Answer the number sentences. Always do the work in the brackets first?
    1. (4 + 8)x 2 b. 3 x (6-4) c. 3 + (4 x 6)

d. 5 x (21-11) e. (14-8) x 6 f. (21 – 7) ÷ 3

g. (21 – 14) x 5 h. (30-20) ÷ 5 i. (21 x 3) -7

j. (10 x 6) – 32 k. (6 x 5) + (4 x 7) l. (7x8)+(25÷5)

m. (3x8) + (28÷2) n. (7x7) – (15÷4) o. (15x3) – (16÷2)

1. 5 pizzas cost Mrs Moffet $40. How much did each pizza cost if they were all the same price?
2. Mr Hong went to the shop and bought 3 dozen eggs. On the way home he slipped on a banana peel and dropped them. When he picked them up 8 were broken. How many eggs were left?
3. Pauline is saving for anew Walkman. If she saved $12 in January, $23 on February and $43 in March, how much has she saved?
4. Sandra only had 13 CDs to play at her birthday party, so Kelly brought 19 CDs and Lauren brought 18. How many CDs did Sandra have altogether?
5. Pauline had a bag of 30 marbles that he shared between himself and his 4 friends. How many marbles did each child receive?
6. Mrs Johnson gave all her grandkids a $60 note for Christmas and a card. She has 7 grandkids. How much money did Mrs Johnson give altogether?
7. Jane made 260 cakes but 70 went flat when she took them out of the oven too early. She also wrecked 6 when icing them. How many cakes were left?
8. Harriet is saving for a new model aeroplane. If she saved $214 in March and $130 in April, how much more will she need to save if it costs her $400?
9. Dad planted 8 Rows of beans. If there were 9 bean plants in each row, how many did he plant?
10. Jane has 15 marbles less than Jack who has 45. How many marbles do they have altogether?
11. Two girls compared the number of football cards they had. If one had 37 and the other had 34, how many did they have altogether?
12. Mary had 68 stamps but sold 34 of them at the fete. How many stamps did she have left?
13. At Kangaroo primary School there were 25 children in Class 4K, 35 in Class 4T and 28 in Class 3M. How many children were in Year 3?
14. Computer game specials

Evil Virus

$502

Puppy Care

$315

Elf Attack

$69

Window Washer

$203

Vampire Game

$78

* 1. What is the difference in pricing between Window Washer and vampire game?
  2. What is the difference in Price between Puppy care and Elf Attack?
  3. What is the difference in price between Evil Virus and Puppy care?
  4. How much would I pay for Window Washer and Elf Attack?
  5. How much would I pay for two Puppy cares?
  6. What change would I get from $150 if I bought Vampire Game and Elf Attack?

1. Bulbs are sold in boxes of 12. How many bulbs would there be in 5 boxes?
2. 7 children shared some lollies and received 5 each. How mnay lollies were there to start with?
3. Six players shared a prize of $36. How much money did each of the players receive?
4. How many weeks will it take Ashley to save $20 if he saves 50c a week?
5. In a grade of 72 children there were 7 more boys than girls. How many boys were there?
6. Marie is twice as old as Joseph who is 5 years older than Samuel. How old is Marie if Samuel is 12?
7. In a game of cricket, Janet hit 8 sixes. How many runs did she score?
8. The bus runs every 15 minutes to the city. How many buses would there be in an hour?
9. There are 25 pupils in the class. If ¼ of them are girls, how many are boys?
10. There are 20 oranges. If we ate ¼ of them and threw ½ of them out, how many would be left?
11. Hailey is 18 years younger than Mr Johnson who is 52. How old is Hailey?
12. Janet has read 53 pages of her book. If there are 203 more pages in the book, how many more does she need to read?
13. Greg bought a toy for $53 and a book for $43. How much change did he get from a $100 bill?
14. 8 people can travel in a minivan. How many minivans would you need to fit 48 children?
15. Mr Michelson bakes 32 cookies to share between his 4 children. How many did each child receive?
16. Janet had 30 stamps that she shared between herself and her 4 friends. How many stamps did each person receive?
17. Toula had 50 metres of material to make some curtains. If each curtain needed 5 metres of material, how many curtains did she make?
18. James bought 42 apples that he shared between himself and his 6 friends. How many apples would be left over?
19. Forty-three children were put into groups of 5. How many children did not make it into a group?
20. In a cricket match, Claire hit 5 sixes and 4 fours. How many runs did she score altogether?
21. Dianne bought a cake for 85c, a pencil for 40c and a ruler for 45c. How much change did she get from $2?
22. How many days are there in the winter months of June, July and August?
23. During March and April it rained on 14 days. How many days didn’t it rain?
24. A toaster costs $38 and watch costs $45. How much change would I get from a $100 bill?
25. Mr Michelson made 42 cakes. How many were left over if he shared the cakes equally between 6 kids?
26. A box of special chocolates contains 4 layers. How many chocolates are there if each layer contains 19 chocolates?
27. Karen walked 7 km in one hour. How many km would she walk in 8 hours?
28. Emily has $52 but Janet has $32 more than Emily. How much do they have altogether?
29. The florist had 30 roses. If she put them into bunches of 7, how many would be left to sell separately?
30. 50 children tried out for the basketball team. If they were put in teams of 6, how many teams would there be?
31. Mark lives 4km from the school. If he walked to and from school, how many kilometres would he walk in a school week?
32. Mr Jones planted 25 plants in 5 rows. How many plants would there be in each row?
33. In 7 soccer games Janet scored an amazing 21 goals. How many goals did she average per game?
34. Lucy has $14 to spend. She loses half of it and then spends $3.50. How much does she have left?
35. James had 30 lollies to share between himself and his 4 friends. How many did each child receive?
36. Thirty-five football cards were shared between 7 children. How many did each child receive?
37. A group of 7 girls shared a plate of 49 frankfurts. How many frankfurts did each child receive?
38. A group of 6 children shared $36. How much did each child receive?
39. Janet had 16 children at her party. Half the group were boys. How many boys were there?
40. Sally bought 21 apples. She then threw away 1/3 because they were bad. How many apples could be eaten?
41. Hailey caught 40 fish and threw back 1/8 because they were too small. How many did she keep?
42. There are 30 children in the class. One fifth of the class were away on Monday. How many children were away?
43. There were 36 cars in the parking lot. If 1/5 of the lot were white, how many were not white?
44. James had a bag of 36 marbles. If he lost 1/6 of them through a hole in the bag, how many marbles does he have left?
45. Dianne was playing a game with 8 dice. How many corners do the dice have altogether?
46. James rides 6km to school every day and 6km home every day. How far will he ride in 2 weeks?
47. Mary received $60 for Christmas from her parents but spent $13, $15 and $7. How much does she have left?
48. Kate’s swimming pool is 10m in length. How many laps does she need to swim to make a distance of 150m?
49. Leah swam 300m on Monday morning and 270m on Tuesday afternoon. How far did she swim altogether?
50. Michelle practices piano for 55minutes every day of the week. How many minutes does Michelle practice each week?
51. Janice won $643 in the lottery but spent $330 on some new clothes. How much money does Jason have left?
52. Sandra had a large bag of 63 lollies that he shared between herself and 8 friends. How many lollies did each child receive?
53. Our friends went on holiday for all of July, August, September and half of October. How many days were they away?
54. Karen’s mass is 45kg, Joseph’s is 40kg and Kate’s is 65kg. What is their total mass?
55. How many 600g packets of peanuts would be needed to make a 12kg pack?
56. Joan saved $8 a week for 5 weeks. How much more does she need to buy a $50 shirt?
57. At the fair there were 20 dogs and 12 adult trainers. How many legs were there altogether?
58. Mrs Baritone saved $145 in May and $134 in June. What was her total savings?
59. Roseanne is 40 years older than John. If John is 23, how old is Roseanne?
60. Franklin had a bag of 260 marbles. The bag had a hole in it and he lost 124 marbles. How many marbles were left?