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- *Thank you for your great work supporting teachers and students with mathematical thinking and comprehension.*

Matharoo. Making Maths Meaningful. And FUN!



MATHAROO Worksheet LP – 20 24

Student Name: _____

Grade: _____ Date: _____



1. The **SHORTEST** day of this year, 2024 happened last Friday, 21st June. How many **MORE** days in June **AFTER** the shortest day are there?



2. In Meg's grade of 18 students, half of them used to like watching **PEPPA PIG**. The rest liked watching **BLUEY**. How many preferred watching BLUEY?



3. Make up a word using the 2nd, 3rd, 4th and 5th letters in the word "breakfast".



4. In a Maths game, Leo scored 6 points, 5 points and 1 point. Terry scored 7 points, 4 points and 2 points. Did Terry beat Leo? If he did, by how many points?

5. While playing cricket, Pat hit a 6, a 4 and three 2s. How many runs did he score altogether?



6. Matilda has 4 numbers written on her page. They are 5, 6, 7 and 8. Three of these numbers add up to 20. Which number is **NOT** used in that plus sum?

7. **Open-Ended Question:** The price tag on a toy car was \$4.75. What coins **MAY** Harry use to pay for this car with the **EXACT** money? Give 3 possible answers.





MATHAROO Worksheet MP – 20 24

Student Name: _____

Grade: _____ Date: _____

DESPICABLE ME 4

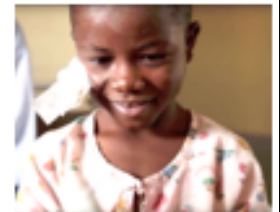


1. The new movie "DESPICABLE ME 4" will be released in cinemas across Australia on Wednesday, 3rd July. In Joe's grade of 24 students, only $\frac{1}{4}$ of them want to see this movie. How many students is that?



2. Tennis champion Ash Barty will take part in an exhibition doubles match at Wimbledon this year. Her date of birth is 24th April, 1996. How old did she turn on her birthday this year?

3. Every donation of \$25 to the Fred Hollows Foundation allows a child with severe eyesight problems to be able to see again. If a company makes a donation of \$200, how many children could have their eyesight restored?



SHORTEST DAY OF THE YEAR



4. The **SHORTEST** day of this year, 2024, in terms of daylight hours occurred last Friday, 21st June. Hobart had just 9 hours and 1 minute of daylight. How many **MINUTES** of daylight was that, in total, in Hobart?

5. Avocados are selling this week at \$1.50 each. If Jane's dad bought half a dozen avocados, how much change would he get from a \$20 note?



6. 26th June is "NATIONAL CHOCOLATE PUDDING DAY" in the United States of America. In Avery's grade at school, 7 of the 22 children in her grade **DON'T** like eating chocolate pudding. So ... how many children in her grade **LIKE** eating it?

7. A company is offering 60 months interest-free on their more-expensive products. How many **YEARS** in 60 months?



8. The best-selling children's book last week was "THE SERPENT AND THE BEAST". It sells in bookshops for \$16.98, but sells at half that price at large chain stores. What is that cheaper price?

9. Write down **ALL** the multiples of 7 between 20 and 60.

10. **Open-Ended Question:** 84 children from 4 grades at Hayley's school are arranged into teams with equal numbers of children on each team. How many teams **MAY** there be? And how many children on each team?





MATHAROO Worksheet UP – 20 24

Student Name: _____

Grade: _____ Date: _____



1. The **SHORTEST** day of 2024 occurred last Friday, 21st June. Hobart had just 9 hours and 1 minute of daylight. The **LONGEST** day will be on 21st December, when Hobart will have 15 hours 21 minutes of daylight. Find the difference, in hours and minutes, between the shortest and longest days in 2024 in Hobart.

DESPICABLE ME 4



2. The new movie "DESPICABLE ME 4" has a running time of 1 hour and 35 minutes. If, before the scheduled 2:30 pm movie is shown in a cinema, there are $8\frac{1}{2}$ minutes of promos for other movies, and $5\frac{1}{4}$ minutes of advertisements, at what time does the actual movie begin to be shown?

3. Tennis champion Ash Barty will take part in an exhibition doubles match at Wimbledon this year. She is 1.676 metres tall. How many **CENTIMETRES** tall is that, rounded off to the nearest whole number?



4. Thursday, 27th June is "NATIONAL HANDSHAKE DAY" in America. If, after handwashing in Taylor's grade of 24 students, it took 2 seconds for Taylor to shake hands with every other student, how long would it take her altogether if there were no interruptions?

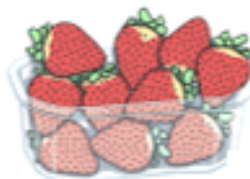
5. A basketball court has the following dimensions: L=28 m, W=15 m. Find the **PERIMETER** and **AREA** of a basketball court.



The Fred Hollows Foundation

6. Usually, a donation of \$25 to the Fred Hollows Foundation allows one child with severe eyesight problems to get their vision restored. So, how many could have eyesight restored with a donation of, say, \$150?

7. The cost of docking cruise ships at piers has increased greatly in recent times. The following taxes for a liner docking in these cities are: In Sydney \$219,352; In Amsterdam \$70,165; In Melbourne \$156,960. **Roughly** what **FRACTION** is Amsterdam's cost of the Sydney cost?



8. **Open-Ended Question:** One supermarket is currently selling strawberries at 2 punnets for \$9. If a customer wants to buy just **ONE** punnet of strawberries, and **YOU** are the boss of the supermarket, how much would **YOU** charge them? Why?



Extension



MATHAROO Worksheet EXT – 20 24

Student Name: _____

Grade: _____ Date: _____



1. The 2024 bike race "THE TOUR de FRANCE" begins this coming Saturday, 29th June. This year there are 22 teams, each with 8 riders. If 16% of competitors withdraw during the race for various reasons, how many will finish the race?



2. The "GARFIELD" movie runs for 100 minutes, while the movie "DESPICABLE ME 4" runs for 1 hour 30 minutes. If Charlie eats 8 pieces of popcorn for each 10 minutes of a movie, how many **MORE** pieces of popcorn does he eat in the longer movie than in the shorter one?

3. A basketball court has the following dimensions: Length = 28 m; Width = 15 m. Find the **PERIMETER** and **AREA** of a basketball court.



4. Use your answer to Question 3 in this question: A wealthy person is building a house with a full-sized basketball court in the basement. In Australia, an "**AVERAGE**" house has an area of 240 m². What **FRACTION** of the area of an average house size is the area covered by a basketball court?



5. At this time of year, some car dealers discount their cars for tax reasons. Three car dealers are offering the following discounts: a) Mazda -- \$4,000 off a car normally costing \$36,990; b) Kia -- \$3,000 off normal cost of \$28,700; c) Hyundai -- \$4,000 off usual cost of \$27,490. Which of these 3 deals offers the **GREATEST PERCENTAGE DISCOUNT**?

6. A policeman calculated that a car drove 2,200 metres in 60 seconds. How many kilometres per hour **ABOVE** the speed limit of 110 kph was that car travelling?



7. A **claim** is that shoppers can save 25% on food bills by shopping at one supermarket chain. The cheapest "basket of goods" there cost \$51.51 while the most expensive competitor's "basket" cost \$69.93. Is the 25% **claim about** right?

8. **Open-Ended Question:** Steve has a piece of string 24½ metres long. He wants to lay the string out in the shape of a rectangle, using the entire length of string. What **MAY** be the length and width of that rectangle? Give 3 possible answers.





Matharoo ANSWER SHEET

for Matharoo sheets 20 24 for week beginning 24th June, 2024

ANSWERS – Matharoo **Lower-Primary** Worksheet IP 20 24

1. 9 days
2. 9 children
3. "rake"
4. YES. By 1 point.
5. 16 runs
6. 6
7. Various answers

XX

ANSWERS – Matharoo **Middle-Primary** Worded Worksheet IIP 20 24

1. 6 students
2. 28
3. 8 children
4. 541 minutes
5. \$11 change
6. 15 children
7. 5 years
8. \$8.49
9. 21, 28, 35, 42, 49, 56
10. Various answers

XX

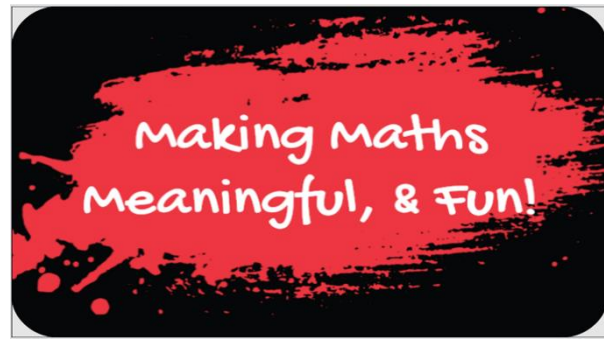
ANSWERS – Matharoo **Upper-Primary** Worded Worksheet IIP 20 24

1. 6 hours 20 minutes
2. 2:43 and 45 seconds
3. 168 centimetres
4. 46 seconds
5. Perim = 86 m; Area = 420 m²
6. 6 people
7. Roughly 1/3
8. Various possible answers

XX

ANSWERS – Matharoo **Extension** Worded Worksheet EXT 20 24

1. 148
2. 10 pieces
3. Perim = 86 m; Area = 420 m²
4. $\frac{7}{4}$
5. Hyundai is the biggest discount – 14.5%
6. 22 kph over
7. Yes. About 26.3%, actually
8. Various answers



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