



"You may need a calculator for these calculations!"

Ferry Facts & Figures!

- ▶ Look at the data sheets provided and use the information to solve the questions
- ▶ Use the place value grid to help you.
- ▶ Round up calculations to the nearest whole number.

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Average speed: 12.5 knots (nautical miles per hour)

Annual number of sailings in a year: 13,842

Annual number of nautical miles (total): 137,039

Ferry Name	 Red Falcon	 Red Osprey	 Red Eagle
Year Built	1994	1994	1996
Last major refit	2015	2014	2005 (refitted & extended)
Maximum cars carried	215	215	215
Car decks	3	3	3
Maximum passengers carried	895	895	895
Sailings per year	4,000	4,000	4,000
Distance per year	45,500 nautical miles	45,500 nautical miles	45,500 nautical miles

Vehicle Ferry Analysis

1. How many nautical miles does each ferry travel in one week?

2. How many nautical miles does each ferry travel in one year?

3. How many crossings does each ferry make in one day?

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4. How many crossings does each ferry make in one day?

5. For how many hours each day is each ferry carrying passengers?

Extension: If the average mass of a passenger is 70kg and the average mass of a car is 1,800kg, calculate the total mass of cars and passengers when a ferry is full to capacity, for example on a Bank Holiday weekend.

Use the space below for your workings.

RED JET HIGH SPEED PASSENGER FERRIES DATA SHEET

Distance of one crossing: 9.9 nautical miles

Time of crossing: 25 minutes

Average speed: 20.5 knots (nautical miles per hour)

Ferry Name			
Year Built	2009	2009	2009
Maximum passengers carried	190 (seated)	275 (seated) + 2 wheelchairs	187 (seated)
Crossings a day	17	17	17

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Red Jet Analysis

1. How many nautical miles does each Red Jet travel in a **day** and in a **week**?

per day	per week
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2. How many crossings is that **per week** and **per year**?

per week	per year
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3. For **how many hours each day** does each Red Jet carry passengers?

4. Write a sentence that compares the **passenger capacities** of the 3 Red Jet ferries

More Questions For You!

1. Write down the names and ages of ALL 6 ferries in order, starting with the newest one first:

Now Over To You!

2. What other questions could you ask?

Can you make some mathematical comparisons between the different ferries?



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Your Challenge!

Present a **wall chart** of statistics for your favourite ferry and compare it with the others.

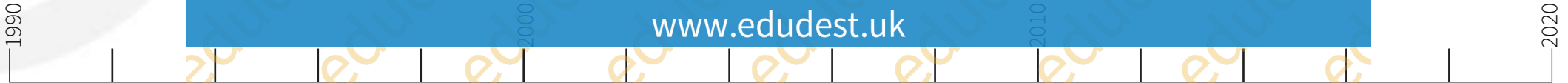
- ✓ Include some **sentences of comparison**
- ✓ Can you include a **bar graph**?
- ✓ Include some of **your own calculations**
- ✓ You could draw a **timeline**



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Below are some pictures you could cut out and use for your wallchart.

