

1. **Parking is \$4 per hour or ANY part of an hour. Cost for 1.5 hours?**

Part of hour 2 -> 2 steps

Answer: \$8

2. **Same rule: cost for exactly 2 hours?**

2 whole hours

Answer: \$8

3. **Same: cost for 2.1 hours?**

Rounds up to 3

Answer: \$12

4. **A postage rate is \$1 for up to 1 oz, \$2 up to 2 oz. Cost for a 1.3-oz letter?**

Into the 2nd step

Answer: \$2

5. **Why does a step function's graph use open and closed circles?**

Show which end is included

Answer: to mark included vs excluded endpoints

6. **A taxi charges \$3 per mile or part of a mile. Cost for 2.6 miles?**

Rounds up to 3

Answer: \$9

7. **Does a step function pass the vertical line test?**

One output per input

Answer: yes - it's a function

8. **A phone plan: \$30 up to 5 GB, \$40 up to 6 GB. Cost for 5.5 GB used?**

Into the 6 GB step

Answer: \$40

9. **Ferry tickets: \$5 for 1-10 riders, \$9 for 11-20. A group of 11 splits into two boats of 6 and 5. Cheaper to split?**

Together: \$9

Split: $5 + 5 = \$10$

Answer: together (\$9 < \$10)

10. **A copy shop: \$0.10/page up to 100, then \$0.08/page for ALL pages if over 100. Cost of 100 vs 101 pages?**

100: \$10

101: $101 \times 0.08 = \$8.08$

Answer: 101 pages is CHEAPER (\$8.08)