

DIVISION HARBOR

The Moonboat Supply Rescue



SHARE FAIRLY. MAKE GROUPS. CHECK THE CARGO.

GRADE 3 / 32 UNIQUE PAGES

Color + low-ink PDFs • Worked models • Games • Answers

FREE SAMPLE / 6 selected pages; original page numbers retained

Your grown-up field guide



1 01 / Ready to board?

Count to 60, make equal groups and use repeated addition. Fact recall helps but is not required. Read directions aloud as needed. Ariel and Alice are story hosts; their ages do not set the target grade.

2 02 / Gather your cargo

Pencil + 60 counters (beans, buttons or marks). Print US Letter portrait at Actual Size / 100%. Choose one edition; you do not need both. Adult scissors are optional for game cards.

3 03 / Try a mission

Use one lesson and one practice page in a short session. Begin with 12 counters. Ask: What is the total? Do we know the group count or each group size? What does the answer count? Deal, circle, draw, write.

4 04 / Watch for understanding

Look for two correct independent models and a sensible answer label per mission. On page 28, aim for 3 of 4 correct with matching models/checks. These are teaching checkpoints, not standardized scores.

5 05 / Help with a mix-up

Unequal shares: deal one to each group in rounds. Wrong label: ask what is unknown. Wrong fact: multiply to rebuild the total. Return to that mission lesson, then use a smaller total.

6 06 / Know the boundaries

Exact whole-number division; core divisors 2-6, totals up to 60. Related fact families reverse factors. No remainders, long division, decimals, division by zero or full fact-fluency course. Keep pages 30-32 with the adult.

Share one at a time



We know the total and the number of groups. We want the number in EACH group. Deal one counter into each group, then repeat until all counters are used.

BUILD THE WHOLE / EXACT COUNTER MODEL

1



2



3



WRITE IT

$$12 \div 3 = 4$$

12 lanterns shared among 3 boats = 4 lanterns per boat.

CHECK THE CARGO

$3 \times 4 = 12$. All 12 are used, and every boat has 4.

Equal groups + matching labels + a check = careful cargo thinking.

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Share with a helping hand



S1 Share 10 lanterns equally among 2 boats. Draw in the group frames.
Each boat gets ____.

1

2

Cargo answer: _____

S2 Share 15 lanterns equally among 3 boats. Draw in the group frames.
Each boat gets ____.

1

2

3

Cargo answer: _____

Alice checks: Did every boat receive the same amount?

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REUSABLE HARBOR TOOL / REPRINT AS NEEDED

The cargo planning mat



Use counters or draw. This is a reusable tool, not a scored task. Keep the mat whole; no cutting is needed.

TOTAL: ____ **GROUP COUNT:** ____ **EACH GROUP:** ____

1	2	3
4	5	6

Use only the frames you need. Make a new group when a frame is full. Need more than six groups? Use another copy of this mat.

Division equation: _____

Multiplication check: _____

Build it. Label it. Rebuild the whole to check it.

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Answer guide / docks & crates



READINESS

R1 12 counters; exactly 12 marks.

R2 12 shells.

R3 20, 25, 30.

LANTERN DOCK / SHARES

S0 4 in each boat.

S1 5 lanterns per boat.

S2 5 lanterns per boat.

S3 6 per boat; $18 \div 3 = 6$.

S4 5 per boat; $20 \div 4 = 5$.

S5 4 per boat; $24 \div 6 = 4$.

S6 4, 4, 4; move 1 from the 5-boat to the 3-boat.

S7 12 is 16 minus 4; division here needs equal shares. 4 per boat; $16 \div 4 = 4$.

SUPPLY SHED / GROUP COUNTS

G0 4 crates.

G1 6 crates; $18 \div 3 = 6$.

G2 4 crates; $24 \div 6 = 4$.

G3 3 crates; $15 \div 5 = 3$.

G4 7 crates; $28 \div 4 = 7$.

G5 5 crates; $30 \div 6 = 5$.

G6 6 CRATES; 4 supplies is already the size of each crate.

G7 A: 4 per boat. B: 4 crates. Same equation, different unknown.

Accept equivalent correct models. Check the labels as well as the numbers.

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