

# ARITHMETIC FACTS SET \_\_\_\_\_

NAME \_\_\_\_\_ SCHOOL \_\_\_\_\_

DATE STARTED \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_

**PREREQUISITE:** None.

**HOW TO DO THIS COURSE:** Do the steps one at a time, in order. When you finish a step, put your initials and the date on the sign-off line on the right. A split line means get a pass (and an initial) from another student (or your supervisor if it says that).

**PURPOSE:** Learn basic arithmetic facts and do arithmetic much more quickly and with certainty.

## MATERIALS NEEDED FOR THIS COURSE

The appropriate set of arithmetic facts cards.

Heron text-pack with this Data Sheet (DS): 678

Exam: 3449

## DRILLING INSTRUCTIONS:

1. The coach arranges the cards of a group randomly. (Note: The cards can be first drilled in order if the student has great difficulty when they are random. But before a student passes on any group he must be able to do them randomly.)
2. The coach goes through the cards showing the student the answer side and stating each fact (coach says “ $3 + 2$  is 5”) as he shows it. (This step may be omitted after the student can get most of the answers on his own.)
3. The coach shows the student the questions side of the cards, with the student stating the answer only. (Card says “ $3 + 2$ ”, student says “5”.) If the student cannot give the answer within 4 to 5 seconds, or gives a wrong answer, the coach tells the student the correct answer and puts the card in the back of the pack.
4. Taking out the cards the student knew, repeat steps 2 (if needed) and 3 with the one left. Then repeat this.

A student is finished with a group of cards when he can give all of the right answers quickly. (For ages 6–12.5, the response rate should be within a second or two. For ages 12.5 and above a response rate of less than 1 second should be expected..)

## A. ARITHMETIC FACTS

0. Supervisor fills in name of set at top of checksheet and circles the drills below which apply. \_\_\_\_\_
1. DEMONSTRATE (with whatever objects you wish to use): Student demonstrates that he understands the ideas of the facts that he is learning. \_\_\_\_\_
2. DRILL: Data Sheet #678, Group A. \_\_\_\_\_
3. DRILL: Group B. \_\_\_\_\_
4. DRILL: Group C. \_\_\_\_\_
5. DRILL: Mixed groups of all cards in A, B and C (first do D and include it if it is last group in set). \_\_\_\_\_
6. DRILL: Group D. \_\_\_\_\_
7. DRILL: Group E. \_\_\_\_\_
8. DRILL: Group F. \_\_\_\_\_
9. DRILL: Mixed groups of all cards in D, E and F (first do G and include it if it is last group in set). \_\_\_\_\_
10. DRILL: Group G. \_\_\_\_\_
11. DRILL: Group H. \_\_\_\_\_
12. DRILL: Group I. \_\_\_\_\_
13. DRILL: Mixed group of all cards in G, H and I. \_\_\_\_\_
14. DRILL: Group J. \_\_\_\_\_
15. DRILL: Group K. \_\_\_\_\_
16. DRILL: Group L. \_\_\_\_\_
17. DRILL: Drill Mixed groups of all cards in J, K and L (first do M and include it if it is last group in set.) \_\_\_\_\_

## 18. DRILL: Group M.

\_\_\_\_\_

I have completed the steps of this course. I understand what I studied and can use it.

Student \_\_\_\_\_ Date \_\_\_\_\_

The student has completed the steps of this course and knows and can apply what was studied.

Supervisor \_\_\_\_\_ Date \_\_\_\_\_

This student has passed the exam for this course.

Examiner \_\_\_\_\_ Date \_\_\_\_\_